# THOMSON CONSUMER ELECTRONICS

NORDMENDE

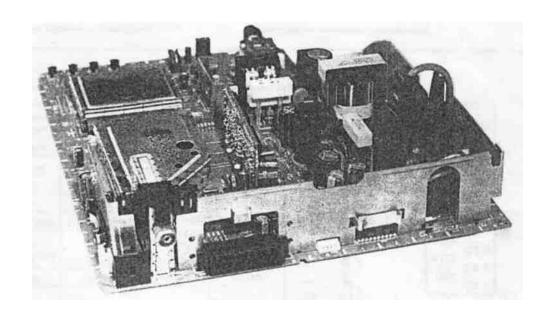
SABA

TELEFUNKEN

**THOMSON** 

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONETECNICA
DOCUMENTACIONTECNICA

Chassis TX91



// Indicates specially selected or critical safety components and identical components should be used for there replacement. This is necessary in order to maintain the operational safety of the receiver.

Le remplacement des elements de securite (reperes avec le symbole /1\) par des composants non homologues selon la Norme CEI 65 entraine la non-conformite de l'appareil. Dans ce cas, la responsabilite du fabricant n'est plus engagee.

Wenn Sicherheitsteile (mit dem Symbol /t\ gekennzeichnet) nicht durch Original-Ersatzteile ersetzt werden, eriischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marchi con il segno/il) con componenenti non omologati secondo la norma CEI 65 comporta la non conformita dell'apparecchio. In tal caso e "esclusa la responsabilita " del costruttore.

La subtitucion de elementos de seguridad (marcados con el simboloZ!X) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

#### MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MED1DAS

RECEIVER: UHF Input level. 1 mV test bar pattern. RM. I standard. 100% white

and sound at minimum.

Scan input level. 1.0 Vpp test bar panern. Programme PR01. Customer controls, Contrast, brightness and colour set at mid point

All"DC voltages are measured with a'digital meter between ground and the reference point.

Par a *yse PssSmm. mw* 0'Hitee | Vcc. aurede tons.

ca^ srtasle. tonwe a m-owx. son mimm.
Ptcwi-»a «eaePRI)I.

•ascrecsranuesretaieespatrappnlalaiTasstMciin icawte runerme

RECEITEUR: E",;"F "mau c'entee I mV mire de banes
• SECOI Noun L Bane IW..

EMPFANGER: Be UHF Eincanospegel 1 mV. Faitoaken: .PAL. Norm 6 WMS 100%.

unei y Sca."uc"s«: E.nca'ssoegd 1 Vss Faaattn: Faite Kcriaa Heidkm in to Mite des teachs Ton auf Mimm ZugewonresPiicramnPROI.

a «icfB(ia)iOt'W]n «teintindioilalM\*illiwt» arltes < g «i» sstii

MCEVnORE InUHF. Mbd'enntalm^monosoxiopwbatre:

•PAL, nonnaG.bBncoll)0%.

Pei la piessa SCART. Irwic d'emata 1 Vcc. moniscoK pM barn:

Cokxe. CwrasB Luc< a mea area. Suoni mnino.

Provaniffla designalo PR 01

Tensiau continue ntevate nspelto aria massa con ufiwnametro nuflwica.

BECEPTOR: En UHF, mil de fntada 1 niV, nn A banas: -PAL, noma G. fanco 1011%.

Pa b tana Penleleisoi. n»ei ae ennoll 1 Vet roa \* tiara. Cola. Contiaste. uz a miud de emu Smdo mnnu. PfairamaafectaooPROI.

TensioriescontinuasmarcadasafinlaQona/masaconunnllifnetrodigrtaL

21	
1 '	<b>‡</b> 20
19中	<b>亡</b> 18
17中	<b>1</b> 6
15 🛱	-
13 中	<b>口</b> 14
110	<b>中</b> 12
1 '	<b>口</b> 10
9 中	<b>⇔</b> 8
7 中	<b>—</b> 6
5 中	•
3 🛱	<b>□</b> 4
	<b>中</b> 2
<u> </u>	

NOTE: (MAIN) ... etc. identifies each pcb module.

NOTE :(MAIN)... etc. reperes des platines constituant l'appareil.

HINWEIS: (MAIN) ...usw. Kennzeichnungen der Platinen, aus denen das Gerat zusammengesetzt ist.

NOTA: (MAINJ... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

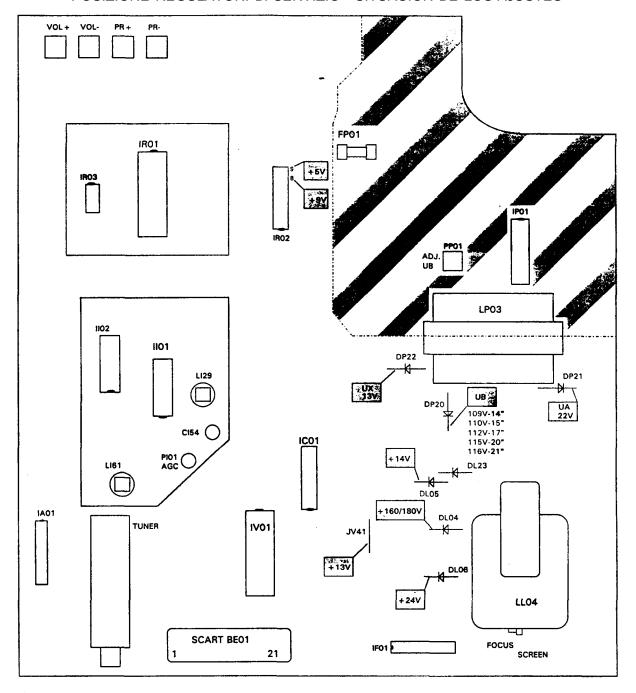
NOTA :(MAIN).,. etc. marcas de las placas que constituyen el aparato.

^		ENGLISH	FRANCAIS	DEUTSCH	ITALIANO	ESPANOL
1	G»	AUDIO •R"	AUDIO "D"	AUDIO -R"	AUDIO "0"	AUDIO "D"
2	^)	AUDIO "R"	AUDIO "D-	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	G»	AUDIO "L"	AUDIO -G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4	_	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5		• BLUE"	• BLEU -	"BLAU"	"BLU"	"AZUL"
6	<b>-</b> ®	AUDIO •L' MONO	AUDIO -G- MONO	AUDIO •L' MONO	AUDIO'S' MONO	AUDIO •I- MONO
7	^)	• BLUE •	"BLEU •	•BLAU"	BLU	AZUL
8	- <b>®</b>	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	•COMMUTAZIONE LENTA'	•CONMUTACION LENTA-
9		• GREEN"	"VERT"	•GRUN"	"VERDE"	"VERDE"
10	NC					
11	-®	"GREEN"	"VERT™	"GRUN"	"VERDE"	"VERDE-
12	NC					
13	_	•RED"	"ROUGE"	"ROT"	•ROSSO"	"ROJA"
14	NC					
15	_^	•RED-	"ROUGE-	"ROT"	"ROSSO"	"ROJA"
16	^)	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	•COMMUTAZIONE BAPIDA-	•CONMUTACION RAPIDA-
17	_	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18	_	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	•COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIOA"
19	0»	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20	-©	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO OSINCRO	VIDEO 0 SINCRO
21	O»	PLUGSCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DESSTECKERS	ARMATURA DELLA SPINA	BLINDAJE DEL ENCHUFE

: OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA : INPUT - ENTREE - EINGANG - ENTRATA - ENTRADA

: EARTH - MASSE - MASSE - MASSA - MASA

# LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN POSIZIONE REGULATORI DI SERVIZIO - SITUACION DE LOS AJUSTES



## ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

UB	PP 01	Contrast, brightness and volume to minimum	DP20	14": 109 V 15": 110V 17": 112V 20": 115V 21": 116V
U G2	SCREEN	AV (no Signal, black screen)	CRT Pin 3,7,9 (Pin 6.8,11) highest output	130V-14* 140V-17* 160V-20*
Focus	FOCUS	Test pattern (standard values)	<b>√</b> €	Sharp picture

#### **SERVICE MODE**

It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Usystem, Focus and Screen voltages.

#### 1. Service Mode Access

- 1.1 With the RCU. switch the TV set into the "Standby" mode.
- 1.2 Switch "Off" the TV set using the mains supply switch.
  1.3 Whilst depressing the RCU "Blue(VT)" button, switch "On" the TV set using the mains supply switch.
- 1.4 Release and press once again the RCU "Blue(VT)" button, the following "Set-Up" menu should be displayed.

SET-UP VIDEO GEOM xxx 123456789 Configuration

Important: The Service Mode cannot be entered if any equipment is connected to the Scart socket, i.e. pin 8 switching voltage present.

#### 2. Function Selection

- With the Volume "+" and "-" RCU buttons, highlight the menu containing the function to be aligned.
- 2.2 Press the RCU "Blue(VT)" button to highlight the function to be aligned.

#### 3. Switching between Service and TV modes

3.1 Whilst in the Service Mode, normal TV controls are disabled, to enable these controls whilst in the Service mode (i.e. for channel changing etc.) press the "TV" button on the RCU. To return to the Service mode, press the "Blue(VT)" button on the RCU

#### 4. Alignment and storing new function value

- 4.1 The current value of the selected function is displayed in an hexadecimal form to the right of the functions name. This value is adjusted by means of the Volume "+" and "-" RCU buttons.
- 4.2 To STORE the functions new value, highlight MEMO and press the Volume "+" RCU button.
- 4.3 To RESTORE the functions original value, highlight R-STO(RE) and
- press the Volume "+" RCU button.

  4.4 Selecting the ROM function downloads the production software default values, these are not very accurate and should only be used in very special cases.

#### 5. Leaving the Service Mode

5.1 To leave the Service mode either, switch the TV set into "Standby" or switch "Off" the mains supply.

## SERVICE-MODE

Der Service-Mode wird für den Gerateabgleich benotigt. Alle Einstellungen erfolgen mil der Fernbedienung (bis auf Systemspannung, Fokuseinstellung und Schirmgitterspannung).

#### 1.Service-Mode einschalten

- 1.1 Mit der Fernbedienung das Fernsehgerat in Stand-by schalten.
- 1.2 Das Gerat mit dem Netzschalter ausschalten.
- 1.3 Die blaue Taste der Fernbedienung gedruckt halten und gleichzeitig das Gerat mil dem Netzschalter einschalten.
- 1.4 Das folgende Menu erscheint nach erneutem Drucken der blauen Taste

	SET-UP	VIDEO	GEOM
xxx	1234567B9		Configuration

Achtung: Der Service-Mode laBt sich nicht einschalten, wenn an einer Euro-AV-Buchse ein Gerat aktiviert ist. d.h. die Schaltspannung aniiegt.

Mit den Tasten +/- wird das entsprechende Menu gewahlt. welches mit der blauen Taste "durchgebiattert wird"

#### 3. Umschalten zwischen Service- und TV-Betrieb

Im Service-Mode sind die normalen Fernsehfunktionen nicht bedienbar. Werden diese im Service-Mode benfitigt (z.B. Programmwechsel), kann mit der Taste ( TV ) in den normalen TV-Betrieb geschaltet werden. Durch Driicken der blauen Taste gelangt man zuruck zum Service Mode.

#### 4. Abgleich der gewahlten Funktion und Speichern

Der momentane Wert der gewahlten Funktion wird hexadezimal rechts neben der abzugleichenden Position angegeben und kann mit der Taste + bzw. - auf der Fernbedienung verandert werden.

Die Anderungen des jeweiligen Menus konnen unter MEMO mit def \*Taste gespeichert. bzw unter R-STO(RE) ruckgangig gemacht werden.

Im Meniipunkt ROM kann man die Software-Defaultwerte laden. Sie sind aber nur eine grobe Annaherung an den noch vorzunehmenden Abgleich und sollten nur im Notfall verwendet werden.

#### 5. Service-Mode verlassen

Zum Venassen des Service-Mode das Gerat in Stand By schalten Oder mit dem Netzschalter ausschalten.

### **MODE SERVICE**

Le mode service sert au reglage de l'appareil. Toutes les operations de reglage s'effectuent a l'aide de la telecommande (sauf la tension de systeme, les mises au point et les tensions de grille-ecran).

#### 1. Acces du mode service

- 1.1 Commuter le televiseur en position de veille avec la telecommande
- 1.2.Mettre le televiseur hors service par l'interrupteur secteur.
- 1.3 -Maintemr la louche bleue enfoncee et mettre simultanement le televiseur en marche avec l'interrupteur secteur.
- 1.4 Le menu suivant apparait après avoir appuye a nouveau sur la louche bleue

VIDEO SET-UP GEOM xxx 123456789 Configuration

Attention : Le mode service n'est pas accessible si un appareil est connecte a la prise peritelevision.

#### 2. Selection de la fonction

Par les touches +/- de la telecommande vous pouvez choisir le menu correspondant (SET UP, VIDEO ou GEOM) et le "feuilleter" avec la louche bleue(VT).

#### 3. Inversion entre modes service et TV

Les fonctions television normales ne sont pas utilisables en mode service. Si elles sont necessaires en mode service (p. ex. changement de programme), la touche (TV) permet de commuter en mode TV. Vous pouvez revenir au mode service en appuyant sur la touche bleue.

#### Reglage des fonctions selectionnees et memorisation

La valeur momentanee de la fonction selectionnee est indiquee sous forme hexadecimale a droite, a cote de la position a regler et pent etre modifiee avec la telecommande par la touche + ou -.

La ligne MEMO permet de memoriser les nouvelles valeurs de reglage avec la touche +. La ligne R-STO(RE) permet de rappeler les valeurs memorisees en NVM. Les valeurs par defaut du logiciel peuvent etre chargees en selectionnant la ligne ROM. Elles ne constituent cependant qu'une approximation du reglage et ne doivent etre utilisees qu'en cas de

#### 5. Abandon du mode service

Pour abandonner le mode service, commuter le televiseur en position de veille ou le mettre hors service par l'interrupteur secteur.

#### SERVICE-MODE

Il Service-Mode e necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (a parte la tensione del sistema, le regolazione del fuoco e le tension! della griglia schermo).

### 1. Attivazione del Service-Mode

- 1.1 Commutare il televisore in stand-by con il telecomando.
- 1.2 Spegnere l'apparecchio con l'interruttore di rete.
- 1.3 Tenere premuto il pulsante blu e accendere contemporaneamente l'apparecchio con l'interruttore di rete.
- 1.4 Il seguente menu appare non appena si aziona nuovamente il pulsante blu

SET-UP VIDEO GEOM xxx 1234567B9 Configuration

Attenzione: Il Service-Mode non si puo attivare se e attivato un apparecchio collegato alia presa di pentelevisione AV, doe se e presente la tensione ausiliaria

## 2. Scelta della funzione

Con i last! +/- si seleziona il relative menu che pud "essere sfogliato" con il

#### 3. Commutazione fra funzione Service-Mode e TV

Nella modalita Service-Mode non si possono attivare le normali funzioni televisive. Se occorre richiamarle in Service-Mode (ad es. se si vuole cambiare il programma), si puo attivare la normale modality TV con il pulsante (TV). Premendo il pulsante blu si riattiva il Service-Mode.

### 4. Taratura della funzione scelta e memorizzazione

Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alia posizione da allineare e pub essere cambiato con il pulsante + o - del telecomando.

Le modifiche effettuate net relative menu si possono memorizzare in MEMO con il pulsante + oppure annullare in R-STO(RE).

Nell'opzione di menu ROM si possono caricare i valori di default del software. Essi rappresentano pero una taratura approssimativa prima di eseguire quella definitiva e si dovrebbero usare solo in caso di emergenza.

#### 5. Disattivazione del Service-Mode

Per disattivare il Service-Mode, commutare l'apparecchio in stand-by 0 spegnerio con l'interruttore di rete.

### MODO SERVICIO ©

Se necesita el MODO SERVICIO para ajustar el aparato. Todos tos ajustes **se** hacen con el mando a distancia (a exception de la tension del sistema, los ajustes del toco y las tensiones de la rejilla de pantalla).

### 1. AJUStar el MODO SERVICIO

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red.
- 1.3 Mantener pulsada la tecia azul y conectar el aparato simultaneamente con el interruptor de red.
- 1.4 El menu siguienteaparecevolviendo a pulsar la tecia azul.

_		S	Е	Т	-	U	Р		V	I	D	Е	o,	ı	G	E	0	М	
	XXX	123	3456	678	9	'							С	onf	igu	ratio	on	I	

**Atenci6n:** No se puede conectar el MODO SERVICIO cuando en Eurotoma-AV esta activado un aparato, es decir, cuando existe tension de  $CO^{06m6m}$ -

### 2. Seleccion de las funciones

Con las teclas +/- se selecciona el menu correspondiente que "hojea" con la tecia azul.

#### 3- Conmutar entre funcionamiento Servicio y TV

En 61 MODO SERVICIO las fundones de television normales no pueden operarse. Si se necesitan estas en MODO SERVICIO (p.e.j., cambio de programa), con la tecia (TV) puede conmutarse a la operacion TV normal. Pulsando la tecia azul sevuelveal MODO SERVICIO.

#### 4. Ajuste de la funcion elegida y almacenamiento

El valor momentaneo de la funcion elegida es indicado de modo hexadecimal a la derecha, al lado de la posicion a ajustar, y puede cambiarse con la tecia + o bien - en el mando a distancia. Los cambios del menu respective pueden almacenarse bajo MEMO con la tecia + o bien anular bajo RESTORE.

En el Pi<sup>m10</sup> de nienu ROM se pueden cargar los valores por defecto del software. Sin embargo, son solo una aproximaci6n basta al ajuste aun a realizar y deben usarse solo en caso de emergencia.

#### 5\_ Salir del MODO SERVICIO

Conmute el aparato a STANDBY a fin de salir del MOOO SERVICIO 0 desconectar con el interruptor de la red.

#### Example

	SET-UP	
Software	code and cont	figuration
NORM B	BD BLD BIL L	I
VT LANG	0 1	2
- R-STO	+ MEMO	0 ROM

#### Example

15.13	VIDEO	15 - 3 - 5
R-DC	00-3F	23
G-DC	00-3F	24
R-DRV	00-3F	1D
G-DRV	00-3F	21
B-DRV	00-3F	1 F
PEAK		(-/+)
	+ MEMO	
+ R-STORE	2	- ROM

#### Example

1.375.855.87	GEOM	
н-рна	00-3F	26
V-POS	00-07	02
V-AMP 50Hz	00-3F	25
V-AMP 60Hz	00-3F	1C
- R-STO	+ MEMO	0 ROM

	SET-UP
NORM	Standards:  B = BG PAL-SECAM L = L SECAM(F) D = DKK' SECAM I = 1 PAL (UK / IRELAND)
VT-LANG.	Video Text Language 0: GB, D, SF, I, F, E, CZ, GB 1: PL, D, SF, I, F, YU, SZ, R 2: GB, D, SF, I, F, E, TR, GB

	VIDEC	)
R-DC*	$\triangleleft \leftarrow$	grau gray
G-DC*	<b>∅</b> €	grav grau
R-DRV	<b>∅</b> €	weiß white
G-DRV	$\triangleleft \leqslant$	weiß white
B-DRV	<b>⋖</b> €	weiß white
PEAK	CRT Pin 3,7,9 (6,8,11)	14" : 60V 15" : 70V 17" : 80V 20" : 90V 21" : 95V

	GEON	1
н - РНА	$\triangleleft \!\!\! \vee$	
V - Pos	<b>⋖</b> €	
V - Amp 50 Hz	<b>⋖</b> €	
V - Amp 60 Hz	<b>⋖</b> €	

#### TV configuration

T	TEXT MODULE
S	STEREO MODULE
M	MONO

- adjust separate for PAL and SECAM
- \* régler séparément pour PAL et SECAM
- \* für PAL und SECAM getrennt einstellen
- \* regolare separatamente per PAL e SECAM \* ajustar separadamente para PAL y SECAM

(from Software version EM11 onward)

# TABLE OF DIFFERENT VALUES - TABLE DES DIFFERENTES VALEURS •

## \*\* TX 91 TABLE

	NORM		NORM BGDKK'		BGH	BGHILL '		BGHILL'
	COLOUR	F	'S	P	s	PS(NTS)	(VIDEO	
ITEM	SCREEN SIZE	14"	20"	14"	20"	14"	14"	
C110 C111 C112 C113 C114 C115 C136 C137 C152 C153 C154 C160 D150 D152 1102 J101 J102 J103 J104 J107 J112 J113 J116 J122 JR31 JR47 Q1 R111 R133 R135 R138 R147 R150 R151 R152 R153 R154 R155 R156 R15 T103 T104 T128 T130	02	DEL	DEL	INSERT	INSERT	DEL	INSERT	
CI64 JA12 JI24 JI25 JI36 JI37 JR35 JR39 RI62 RI70 RI71 RI72 TI02		INSERT	INSERT	DEL	DEL	INSERT	DEL	
C162		DEL	59.	DEL	DEL	DEL	DEL	
CIES		390		182	186	39P	100	
CM67		6PE	58%	2P2	2P2	621	292	
CIGI		671	60%	292	292	IPI	277	
D433		STRAP	SIRAP	BA282	BAZBZ	STRAP	BA282	
DI34		STRAP	STRAP	BA282	BA282	STRAP	BA282	
RI04		SER	SAR	180R	196R	668	188R	
Ri32		18K	16K	1K	1K	18K	1K 8TVZ118	
(VO1		STV2112 OEL	STV2112 DEL	\$1V2112	\$TV2112	\$TV2118 3.58MHz	3.58MHz	
QCB2		FiLSW	FILSW	DEL	OEL	FILSW	3.38MJQ	
Qiat		KZ955M	K2955M	·	1 ·	K2955M	<u> </u>	
Ol31		FELC	FILC	FILC	FILC	FALC	FILC	
		6,5MHz FILC	6.5MHz FILC	SMOHZ FNLC	6M8HZ FILC	6,5MHz FILC	SMOHZ FILC	
0433		6M5HZ	6M5HZ	8MOHZ	6MOHZ	OMSHZ	6MOHZ	
J466/CI38/CI39					TO BE DEFINE			
R160		ere ere	DRO	2K7	21(7	DRO	2107	
IRQ1 PIN 12		BG-TRAP	BG-TRAP	OPEN	DPEN	BG-TRAP	OPEK	
IRB1 PIN 31 - RR28 (SOUND SW)		OPEN	OPEN	180R	190R	OPEN	186R	
Di62		Detained	Deleted	1N4148	184144	Deleted	184148	
R174		19U0	18U0	55R6 47U0	58R0 47U0	9R0 19U8	56R0 47U0	
CH01		29.65MHz	29.65MHz	32.4MHz	32.4MHz	29.85MHz	32,4MHz	
		5,6UH	5,6UH	4,70H	4,7UH	5,6UH	4,7UH	
1.163 CA07		336p	3309	478g	478p	330p	470p	
CADO		338p	330g	390p	39 <b>6</b> p	3309	390p	
RA23		546	5XS	5K6	SK6	5K6	5K6	
Au12		SKG	586	546	5K6	5K6	5K6	
R/13		586	5X6	5K6	SKS	5K6	5KB	

# \*\* TX91 COMPONENTS MATCHING FOR FBT ACCORDING TO SCREEN 14" 15" 17" 20"&21"

SCREEN SIZE	14" (EU/TTT)	15° (TTT)	17" (EUROPE)	20" (EUROPE)	20" (EUROPE)
TUBE	CHUNG HWA	TOSHIBA	PHILIPS	POLKOLOR	POLKOLOR
TUBE REF.	370KR822-TC38	A36JAR40X01	A41EAM40X01	A48EEV13X01	A48EEV13X01
LP03	20264960	20254960	20264960	20349930	20349930
RP20	RMF R27 3W	RMF R27 3W	RMF R27 3W	RMF R22 3W	RMF R22 3W
JP06	STRAP 10MM	STRAP 10MM		STRAP 10MM	STRAP 10MM
JP07			STRAP-15MM	-	
LLOS	FCV-1410-E18	FCV-1410-E18	FCV-1410-E18	FCV-2010ED7	203832 10 PI
LL03(LIN COIL)	LL90uH	LL90uH	LL90uH	LL58uH	LL58uH
CL84(TUN CAP)	CFS 6N5 1K6	CFS 6N5 1K6	CFS 6N3 1K6	CFS 6N3 1K6	CFS 7N6 1K6
CL18	CC 680P 2KV	CC 680P 2KV	CC 580P 2KV	CC 680P 2KV	CC 680P 2KV
CLOS(S.CAP)	CFS 390M 250V	CFS 390N 250V	CFS 390N 250V	CFS 470N 250V	CFS 470N 250V
RL22	RMOF 91K 1W	AMOF 82K 1W	RMOF 91K 1W	RMOF 82K 1W	RMOF 82K 1W
RL13	RCFF 0.56R 0.5WJ	RCFF 2R7 0.5WJ	RCFF 2R7 0.5WJ	RCFF 1.5R 0.5WJ	RCFF 1.5R 0.5WJ
RL14/JL12	RCF 1R5 0.5W	RCF 2R2 B.5WJ	RCF 2R2 8.5WJ	RCF 2.2R 0.5WJ	RCF 2.2R 0.5WJ
JL07/LL07	STRAP 10MM	STRAP 10MM	LF100UF	STRAP 10MM	STRAP 10MM
RF07	RMFMN 121R 1%	RMFMN 121R 1%	RMFMN 127R 1%	RMFMN 121R 1%	RMFMN 1218 1%
AF08	RMFMN 909R 1%	RMFMN 866R 1%	RMFMN 909R 1%	RMFMN 856R 1%	RMFMN 866R 1%
RF15	RCFMN 390K 0.1WJ	RCFMN 360K 0.1WJ	RCFMN 390K 0.1WJ	RCFMN 330K 0.1WJ	RCFMN 330K 0.1W.
CRT(INTEGRATED)	7 TR VERSION	7 TR VERSION	IC VERSION	IC YERSION	IC VERSION
MAIN PCB (A900)	2026155A	2026155A	2035015A	2035015A	2035015A
UB MIN BEAM CURRENT	+109V	+110V	+112V	+1157	+116Y
JP12/LP05	STRAP 10mm				
CF05	CE1000UF	CE680UF	CE680UF	CE1000UF	CE1000UF
RL12	RCFF 0.56R	ACFF 1R5	RCFF 1R5	RCFF 0.56R	RCFF 0.56R
DP21	IS1834	IS1834	IS1834	PFR852	PFR852
Ct.08	CPM 6N8 100V	CPN 6N8 100V	CPN 6N8 100V	CPN 8N2 100V	CPN 8N2 100V
RL 08	RMOF 33R 1W	RMOF 33R 1W	RMOF 33R 1W	RMOF 18R IW	RMOF 18R 1W

## TABLE OF DIFFERENT VALUES - TABLE DES DIFFERENTES VALEURS •

### \*\* TX 91 TABLE

DIFFERENCE BEETWEEN PSN BGDKK', PAL BG AND PAL I

NORM	BGOK	BGOK! BGHILL BGDKK. BGHIL				BCHILL.
COLOUR	P\$		P\$		PS(N)	(\$C VIDEO)
SCREEN SIZE	14"	20"	14"	20"	14"	14"
CR01			FOR D	-DC CONVE	RTER	
CH88/CH14/CV88/CH16/CK84/CH17			TO BE DE	FINE		
CA20/CA21/RI17/LI04			FOR STER	O BOARD		
LV87			FOR CINCH	BOARD ONL	Y	
CK07/CK08/CK09/CK19		i	TO BE DI	FINE		
TXT BOARD		OPTI	ON TOCOM 2	0361450(4	AGE)	
STEREO MODULE	OPTION STE	EO MODE				TOCOM : 203352
BAD4/JA65		<u> </u>	WITH BAG4			
BT01/BT1A	20174628	29174628 0174650 20174620 20174650 20174620			20174620	20174620
CR19/CR28/CR21/CR22	<u> </u>	TO BE DEFINE				
9R01			OPTION FO	R DOUBLE	SCART	
BROS			OPTION FOR	PSN LED IN	DICATOR	
GA20 GA21 GC21 GC23 RC23 GF01 MF02			то	BE DEFINE		
RR69		INSERTE	D 1KO FOR C	LK/RADIO O	PTION.	
RR72		INSERTE	D 1KO FOR C	LK/RADIO O	PTION.	
RT66 RT76 CT56 CT66 CT76		}	TO BE DEFI	NE .		
BROS		INSERT	ED FOR CLK	RADIO OPT	ION.	
DR06 JR59 JA25 RA67 TA04 TA05 DA84 DA05 CA14 CA08		DELET	ED WITH CLI	(/RADIO OP	TION	
DK01		IPTION F	OR ATTACHE	O KEY BOA	RD ONLY	,
CP16		1	TO BE	DEFINE		
BRO7, AR88	1	{	TO BE	DEFINE		
RV25		i	RCFMI	ZOK FOR 1	4"	
LP01, JP08, JP11	(	POWER C		SED 2 X 300	AP 10 mm (JP0) UH <b>Sup</b> pressi	
Ri17/Li94		:	FOR ST	EREO BOAR	n	

	PSN BGDKK" (NTSC VIDEO)	PAL BG (NTSC VIDEO)	PAL I (NTSC VIDEO)
POS	DESCRIPTION	STRUCTURED NAME	STRUCTURED NAME
C163	CCMIN INF 50VK	RCFMN 0 OHM	RCFMN 0 OHM
C164	CCMIN 4N7 16V M	DELETED	DELETED
C165	CCMIN 47PO 50VJ	DELETED	DELETED
C166	CCMIN 39P0 50VJ	DELETED	DELETED
C167	CCMIN 6P8 50YK	DELETED	DELETED
C168	CCMIN 6P8 50VK	DELETED	DELETED
D133	STRAP 0.6X4.5X12.5	DELETED	STRAP 0.6X4.5X12.5
DI34	STRAP 0.6X4.5X12.5	STRAP 0.6X4.5X12.5	DELETED
D160	DIODE BA282	DELETED	DELETED
LI61	LA7X7 29.65MHz	DELETED	DELETED
Q101	FILSW K2955M	FILSW G1962M	FILSW J1952M
Q131	FILC 6.5MHz	DELETED	FILC 6MHz
Q132	FILC 5.5MHz	FILC 5.5MHz	DELETED
Q133	FILC 6.5MHz	DELETED	FILC 6MHz
Q134	FILCTRP 5M74	FILCTRP 5M74	DELETED
RIO4	RCFMN 68R 0.1WJ	RCFMN D OHM	RCFMN 0 OHM
R127	RCFMN 68R 0.1WJ	RCFMN 56R 0.1WJ	RCFMN 56R 0.1WJ
R160	RCFMN OR	DELETED	DELETED
R162	RCFMN 2K7R 0.1WJ	DELETED	DELETED
R163	RCFMN 150KR 0.1WJ	DELETED	DELETED
R170	RCFMN 2K7R 0.1WJ	DELETED	DELETED
RI71	RCFMN 2K7R 0.1WJ	DELETED	DELETED
R172	RCFMN 3K9R 0.1WJ	DELETED	DELETED
T102	SMD BC848B	DELETED	DELETED
JA12	STRAP 0.6X4.5X10	DELETED	DELETED
JR39	RCFMN 0 OHM	DELETED	DELETED

### **MICROPROCESSOR**

RF NORM / SOUND	L,AM	BG,FM5.5	I,FM6.0	DKK`,FM6.5
PIN 12 (BG TRAP)	G	1	0	0
PIN 31 (SOUND SW)	1	1	0	1

# DIFFERENCE BEETWEEN MONO &ISTEREO 20" (BGHILL')

POS.	MONO	STEREO	POS.	MONO	STEREO	POS.	MONO	STEREO	POS.	MONO	STEREO
BA03	2 WAY	DEL	C170	33P	DEL	JA24	12.5MM	10R0	R117	DEL	2K7
BA05	DEL	7 WAY	C171	1N	DEL	JA25	12.5MM	DEL	R127	100R	1108
BA06	DEL	9 WAY				JA38	DEL	P0	R132	1K	DEL
						JI12	12.5MM	DEL	RI33	1K8	DEL
CA02	47 <b>0</b> U	DEL				JI13	12.5MM	DEL	R135	4K7	DEL
CA03	190N	DEL				JI16	10MM	DEL	R138	1K8	DEL
CA04	18	DEL	DA04	BZX55B2V7	DEL	JR22	DEL	OR	RJ47	4K7	DEL
CA05	22N	DEL	DA05	BZX55B2V7	DEL	JR35	DEL	OR	RR20	100R	DEL
CA06	22N	DEL	D133	E7296	DEL				RR72	1K8	DEL
_CA07	150P	DEL	DI34	E7296	DEL	L104	DEL	2211	TA04	BC8488	DEL
CA08	2N2	DEL				L162	120	DEL	TA05	BC848B	DEL
CA09	150P	DEL	IR01	ST9291J681	\$T92E91J7	L163	407	506	T130	DTC144EK	DEL
CA13	47U	DEL								1	
CA14	220U	DEL	QI01	G1965M	IFWG3965M	NAD1	IC-MONO	OEL			
CA15	47U	DEL	Q132	5.5MHz	DEL					1	
CA16	220N	DEL	Q133	6MHZ	DEL	RA07	2K2	DEL		T	
CA17	4N7	DEL				RAGE	56K	DEL			
CA39	470U	DEL				RA09	4K7	DEL			
C114	100	OEL	JA01	OEL	OR	RA10	56K	DEL		1	
C115	10U	DEL	JA04	OR	DEL	RA11	10K	DEL			
C116	22U	DEL	JA07	10MM	DEL	RA21	150K	DEL			
CI17	22U	DEL	SOAL.	DEL	12.5MM	RAZZ	220K	DEL	1	1	
C119	68N	DEL	JA10	DEL	10MM	RAZ3	2K7	DEL	I		
C122	10	DEL	JA11	DEL	10MM	RA24	47R	DEL			
CI23	CCCMIN	RCFMN	JA15	10MM	DEL	RA25	18	DEL			
J.23	22M	9R	JA17	OR	DEL	RA26	470R	DEL			
C124	22N	DEL	JA20	12.5MM	DEL	RI12	5K6	DEL			
CI31	33u 22N	DEL	JA21	DEL	10MM	RI13	5K5	DEL		1	<u> </u>
C136		DEL	JA22	DEL	10MM	RI14	220R	DEL		T.	
C137	22N	DEL			i	R115	100K	DEL			1

### **^BRAND**

	PIN9	PIN8
TELEFUNKEN	0	1
BRANDT /SABA / FERGUSON	1	0
THOMSON / NMD	1	1

## ≠ CRT IC VERSION

	14"	17"	20"	21"
RT06	62R	62R	220R	220R
CT06, RT10 RT26, RT46		TO BE	DEFINE	

# **@ VOLTAGE FOR CRT**

14"	20"	21"
160V	180V	180V

# COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

Solder side - Cote soudure - Lotseite - Lato saldature - Lado soldaduras

G11 C11 C11

B11 B10 B10 A6 C6 06 C8 C8

С6 С6

AS A4 A4 B3 B4

C9 G10 J11 H9 F7 C10 D10

F7 F9 C9 E8

E10 A1 B1

CO CO C1 64 C3 C4 D4 J3 J1 J2 G1 HO GO

02 FO H6 G7 J9 J9 J9 J9 H9 J8 H9 K8 J6 H9

> J9 J8 J8 J8 J8 C8 B6 B6 B6

	CP39 E0	11.46	DI40 5:-	DD00 5-	
	CR04 H9	JL16 A3 JR01 G6	RI10 D10 RI11 E9	RR38 E6 RR43 J9	T
11 <i>&gt;&gt;</i> •	CR05 K9 CR11 J10	JR14 K7 JR18 K11	RI12 C10 RI13 C11	RR44 K10 RR45 J10	
	CR12 J9	JR20 H8	R11S RIO	RR46 J10	YA01
CA01 G11 CA05 F11	CR13 J9 CR14 H8	JR21 L7 JR22 H11	RI17 D10 R119 D8	RR47 F6 RR49 H8	YA03
CA06 G11	CR15 H8	JR23 L7	RI20 D9	RR50 H8	YA04
CA07 F11	CR16 K8	JR26 J11	RI21 D8	RR51 H9	YA05 YA06
CA08 F11 CA09 C11	CR17 J9 CR19 L10	JR27 K8 JR29 K9	RI22 E9 RI23 D8	RR52 H8 RR54 H8	YA07
CA17 AH	CR20 K10	JR30 K9	RI24 D8	RR63 K11	YC01 YC02
CA20 E11 CA21 E11	CR21 K10 CR22 K10	JR31 J8 JR34 J11	RI25 E8	RR64 K11	YC03
CC01 A7	CR22 K10 CR24 K7	JR35 K11	RI27 F8 RI29 F7	RR65 K11 RR66 H8	YC04
CC02 C7	CR27 J9	JR36 K11	RI30 B7	RR67 H9	YC05 YC06
CC03 C7 CC10 06	CR28 H9 CR90 J11	JR39 J10 JR42 H11	RI32 F8 R133 F7	RR69 K8 RR71 J7	Y1207
CC11 C6	CV03 B7	JR43 H10	RI34 F8	RR72 J9	TI-01 YF03
CC12 C5 CC13 D6	CV04 C7 CV05 B8	JR45 J8 JR57 K10	RI35 G9 R138 F7	RR73 J9 RR74 F7	YFOO
CC14 C6	CV06 B8	JR58 K10	RI40 G9	RR75 J7	YF10 YF12
CC18 D6 CC19 C7	CV07 B8	JR59 K8	RI41 G8	RR78 J10	YI01
CC19 C7	CV08 F6 CV09 B5	JV02 A5 JV07 A9	R142 G7 RI43 G7	RR79 J10 RR80 J10	YI03
CF01 A3	CV10 B7	JV40 D5	RI44 B9	RR81 J9	YI06 . YI07
CF02 A3 CF11 A4	CV11 B7 CV12 B7	JV46 E7	RI45 A8 RI47 G10	RR83 H8 RR84 H7	Y108
CF21 A2	CV15 D7		RI50 E9	RR85 H8	Y109 YI10
CH03 C9 CMOS B10	CV17 C7 CV18 C7	Į i	RI52 E9 R153 D8	RR86 H8	YI10 YI11
CH09 B9	CV18 C7 CV19 C7	<u> </u>	R153 D8 R154 D8	RR87 K8 RV01 C5	Y112
CH10 A10	CV20 C7	RA01 H11	RI55 E8	RV05 B8	Y113 Y114
CH14 B10 CH15 B10	CV21 B8 CV22 C8	RA07 F11	RI56 E7 RI57 E7	RV07 B8 RV09 B8	YI15
CH16 A10	CV23 C8	RA08 C11 RA09 G11	RI60 D10	RV11 A7	YL01 YL02
CH17 A9	CV24 C7	RA10 F11	RI62 D10	RV15 B6	YL02 YL03
Cl01 A8 Cl02 A8	CV25 C8 CV27 C7	RA11 G11 RA20 J11	RI63 D10 R164 E9	RV16 B6 RV17 B6	YL04
Cl03 A8	CV28 C7	RA20 311	R170 H11	RV18 B6	YL05 YŁJIA
CI04 A9 CI05 C10	CV30 A5 CV31 A9	RA22 C11	RI71 J11 R172 E9	RV21 C7 RV24 C6	YL08
Cl07 D9	CV34 C4	RA23 B11 RA24 C10	RI72 L9	RV25 C5	YL09
CI08 D9	CV35 B7	RA27 H11	RI74 D8	RV26 C8	YL10 YL11
CI10 E10 CI13 F10	CV40 A5	RA37 G11	RK07 K9 RK08 J9	RV28 06 RV29 06	YP01
CI18 D11		RA38 G11 RA39 G10	RK12 L10	RV30 C8	YP02 YP03
Cl19 F9 C123 E9	0 0	RC04 D6	RK13 L10 RL02 BO	RV31 E7 RV35 B6	YP04
Cl24 F9	00	RC05 D5 RC06 C7	RL03 AS	RV37 F6	YP05 YP06
Cl25 E9 Cl27 E8	JA01 E11	RC07 D7	RL04 A1	RV38 F6	YP07
CI27 E8 CI28 E8	JA04 A8	RC08 D5 RC20 D7	RL21 D4 RL23 D2	RV39 F6 RV40 B5	YP08
Cl31 F8	JA05 A11 JA06 E11	RC23 D6	RP08 H3	RV42 F7	<b>YP09</b> YR01
CI33 E9 CI34 E8	JA13 A10	RF06 B5	RP09 G2 RP11 G2		YR02
Cl36 G8	JA17 G10 JA18 H10	RF07 C4 RF08 B4	RP13 H1		YR03 YR04
Cl37 F7 Cl38 G10	JA38 E11	RF11 A3	RP18 G1 RP19 G1		YR05
Cl39 G9	JC03 B7 JF01 A4	RF12 A3 RF13 A3	RP23 H2	TA01 G11	YR06
CI52 E8	JF02 B4	RF15 A4	RR04 K7	TA02 H11 TA04 F11	YR07 YR08
C153 E7 CI60 D8	JH02 C9	RF21 A2	RR05 J6 RR06 J6	TA05 G11	YR09
CI62 D9	JH03 B10 JH09 C9	RF22 A2 RF31 C3	RR07 J8	TA06 G11 TF21 A2	YR10 YR11
Cl63 D10 Cl64 J11	JI01 D9	RF32 C4	RR11 J8 RR12 J8	TF31 C4	YR12
Cl65 D9	J102 D9 JI04 E10	RF33 C4 RF34 C4	RR13 J7	TH01 K8	YR13 YR14
C166 D9	J105 E8	RF35 C4	RR15 J7	TH02 B9 TH03 B9	YR15
Cl67 C10 Cl68 010	J106 E10	RH04 J8	RR16 J8 RR18 J10	TH04 A9	YR16
Cl69 E9	J108 ' 08 J109 G9	RH05 J8 RH06 C9	RR19 J10	TI01 E10 TI02 J11	YR17 YR18
CI70 67 CI71 F8	J115 A9	RH07 B9	RR23 K9 RR25 H10	T102 311	YR19
CK04 L6	JI18 A8 J121 D10	RH09 K7 RH10 J7	RR25 H10	TI04 E10	YR20
CK05 J9	J123 F8	RH13 C9	RR27 L6	T128 E7 T130 G10	YV01 YV02
CK06 L9 CL02 AO	J124 F10	RH14 B9	RR29 K8 RR31 K8	Tl31 F8	YV03
CL14 D4	J125 F10 J136 F9	RH15 A9 RI03 C10	RR32 B8	TI32 G7 TK02 K10	YV04 YV05
CL22 C4 CP07 H3	J137 F9	R104 D10	RR33 K8	TR01 K7	1 7 00
CP19 G2	JK08 L10 JK19 L6	RI05 D9 RI06 D9	RR34 J10 RR35 J10	TR02 H8	
CP23 H2	JL04 CO	RI07 D9	RR36 J10	<b>ሻዋነው</b> ህ 448 TV01 F6	
CP26 H1	JL12 B3	RI09 D10	RR37 E6	TV02 E6	
CP28 H1					

#### ABBREVIATIONS - ABREV1AT10NS -ABKURZUNGEN - ABBREVIAZION1 - ABREVIACIONES

ABL AVARAGE BEAM LIMITATION

REGULATION DU SOURANT DE FAISCEAU

AF AUDIO FREQUENCY

FREQUENCE AUDIO

BCL BEAM CURRENT LIMITATION

LIMITATION DU COURANT DE FAISCEAU

**DEG. COIL** DEGAUSSING COIL

**BOBINE DE DEMAGNETISATION** 

FB FAST BLANKING

**COMMUTATION RAPIDE** 

H HORIZONTAL DEFLECTION SIGNAL

SIGNAL DE COMMANDE BALAYAGE HORIZONTAL

HTR HEATER

TENSION DE FILAMENT

I CUT CUTOFF CURRENT

COURANT DE CUTOFF

IP DATA FROM INFRARED RECEIVER

DONNEES ISSUES DU RECEPTEUR INFRAROUGE

SCL SERIAL CLOCK

SIGNAL HORLOGE SERIE

**SDA** SERIAL DATA

**DONNEE SERIE** 

SIF SOUND IF

**FISON** 

VAMP VERTICAL AMPLITUDE

AMPLITUDE VERTICALE

V POS VERTICAL POSITION

POSITION VERTICALE,

VT TUNING VOLTAGE

TENSION DU TUNER

-V VERTICAL DEFLECTION SIGNAL

SIGNAL DE COMMANDE BALAYAGE VERTICAL

# Ersatzteile • Spare parts list • Liste de pieces de rechange • Lista parti di ricambio Lista de piezas de recambio

**Wichtig:** Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!

N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!

Lors d'une commande de pieces de rechange, priere d'indiquer et tout cas le numero de la piece!

**Importante:** Ordinare sempre con il numero correspondenti di codice!

Importante: Pedir siempre los recambios con el numero correspondiente codigo!

Importa	inte: P	edir siempre los recambios	con el numero correspond	əib
Pos.	ArtNr. Part No.	Bezeichnung	Part	
		MOOULE/AUSTAUSCHTEILE:	EXCHANGE PARTS:	
MTM4045	202.413.WI	MTM4045 TUNER	MTM404S TUNER	
		CHASS1S-TE1LE	CHASSIS PARTS	
BA01	231.0—	Siinnsf 2poitg. UP	2 pin contact houaing	
BE01	3m.6St.001	ScartbuchrZlpoKg	Scan lockal	
BT01 BT01 BT02	201.746.20 353.902.1000 905.903.50	BikjronrfHiung BildroDrlaxung Stittleiste lOpollg RD UF	Caitiod* ray tub* sockt Camoda fy lub« lock*! Contxct strip 10-pol*	
BV01 BV02 BV03	309.650.064 905.903.50 309.650.092	Stitttiisr IOpoitg UF S(it11«rt* IOpolig RD UF Stittl*iat*. 4polk) Ll*g*nd	Confet strki 10*pol« Conud •trk} 10-pol* ConUct Inip. 4-pol*	
BX01	309.650.087	Stlltl*isle, IQpoHg. Natuf U	Contact itrk). 10-pot*	
CH12	490.006.0607	10NF 250V 20% Keramlk-Konden««tor	10NP 250V 20% Ccap	
CL04 CL04 C1.04 CL05 CL05 CL10	101.B57.70 256.909 490.007.6232 309.433.766	ON3F 1K6V 3.5% Filmkond*ne«tor 7N6F 1K6V 3.5% Filmkondwtof 7N0F tK5V3.5\ Filmkondenselor 390NF 250V 10% MKP-Kondenflor 330PF 1KV 10% Kenmik-Kondanutor	6N3F 1K6V 3.5% Film e*p 7N6F 1K6V 3.5% Film C*P 7N0F 1K5V 3.5% Film Ctp 39CNF 250V 10% Fitm cap 33CPF 1KV 10% Cop	
CL12	490 006.0607	10NF 250V 20% K»fmik-Kond»n»itor	10NF 250V 20% Cctp	
CL15 CL17 CL18	266243 243879 242272	330PF 1KV 10% Keremik-Konden—tor 330PF 400V 20% Kefamik-Kondensator 680PF 2KV 10% K*ramik-Kond*ns*lor	33CPF 1KV 10% C Clp 330°F 400V 20% C cap 66CPF 2KV 10%C cap	
CP01	252320	OU1F 27SV20%MP-Kono*n—tor	OU1F 275V 20% MPoly cap	
CP04	203.867.60 309.442.972	1NF 1KV 10% K*ramik-Kond*n»tor 1NSF 1KV K»famik-KondTT«tOf	1NF 1KV 10% Ccap	
CP05 CP06	309.442.972	1NF 1KV 50% KerTDik-Kondensator	1N5F1KVCcap 1NF KV 50% C cap	
CP07	490.007.2242		100UF 400V E cap	
CP09	203.687.60	1NF1KV10% Ker «mik-Konden « «tor	1NF 1KV 10% C cap	
CPU CP16	243.879 309.440.660	330PF 400V 20% K*r«mik-Kondenietor 1NF 1KV 50% K*r«mik-Kondensii(or	330PF 400V 20% Ccap 1NF 1KV 50% C cap	
CP21	101.09960	4N7F 400V 20% Ker«mik-KondensHor	4N7F 400V 20% C cap	
CP21	309.951.997	Schutzkappe P.CP21/49/50	Profclion cap	
CP29	490.006.0601	270PF 2KV 10% Kef-mik-Kondenstlof	27CPF2KV10%Ccap	
CP35	266.243 309.419.426	330PF 1KV 10% KerTHik-Konden—lor	330PF 1KV 10% C cap	
CP40	243.879	150UF 200V Elto 330PF 400V 20% K*r*mik-Kond*nutor	150UF 200V E cap 330PF 400V 20% Ccap	
CT03	140.360.20	2N2F 2KV 50% K*rimllrKond*n«*tor	2N2P 2KV 50% C cap	
CT82	246.746	2U2F 250V Elko	2U2F 250V E cap	
CT«4 CT85	238.221 309.442.978	10NF 250VAC 400V Kenmik-Kondensetof 1NF 2KV 20% KTBrnik-Kondensator	10NF C cap 1NF2KV20»CC«P	
DA05	3M.12f.111	BZX55B2V7 Z-DIOd*	BZX55B2V7 Z.Dioda	
DC01	464.371	ZPD5.1 Z-DkKf	2PD5.1 Z-Olod*	
DFOt	309.325.951	1N4001 OiOd*	1N4001 DICKK	
OF02 OF21	309.325.927 309.325.927	1N4148 Diode 1N4148 DiOd*	1N414»010<1« 1N4141 DioM	
OF22	309.325.927	1N4148 OiOd*	1N4148 Diod*	
OH01	353.111.2001	ZTK33C 1C	ZTK33C 10	
OK01	202.t85.20	LTL-4263 OiOd* LED rot	LTL-4263 Dioca LED r«d	
DK01 OK03	239.018 202.985.20	Hairr. LED LTL-4263 DiOd* LEO rot	LED <b>lioidl</b> LTL-4283 Dioda LEO lad	
MK03	203.820.60	Hilfr LED	LED noldi	
OL01	309.325.927	1N4146 Diod*	tN4i4goiod«	
DL02	204.037.70	BYT52G Diod*	BYT520 Olod*	
DL04 OLOS	204.037.70 204.037.70	BYT52G DiOd* BYT52G Diod*	B'rT52G Dioda BVT52G Oioda	
DLM	204.037.70	8YT52G Di0d*	BrT52Q Dloda	
OL07	309.325.951	1N4001 DiOd*	1N4001 Dloda	
DLM	309.325.951	1N4001 Olod*	1N4001 Oloda	
DL12 OL13	309.325.927 243.375	1N4148 Diode BZX55B13V Z-Diode	1 N 4 1 4 6 Dloda B2X55813 V Z-OK3da	
DL20	243.375 309.325.927	1N414B Diod*	1N4148D.OO*	
01.21 DL23	309.325.927 309.325,927	1N41480K)d* 1N414a Otod*	1N4146 Olod* 1N4148 Oloda	
DP01	102.661.30	M100M Oiod*	M100M <i>OWH</i>	
DP02	102.661.30	M100M Diod*	M100M Oloda	
DP03 DP04	102-661.30 102.661.30	M100M Diod* M100M Diod«	M100U Dloda M100U Dtoda	
DP08	490.001,1567		BYT11-600 Oloda	
DPW	204.037.70	BYTS2Q Diod*	BYT52G Dloda	
OP07 DPO»	204.037.70	BYT52G Diod* BYT920 Dtod*	BYT52Q Olod* BYT520 Diod*	
5FO"	204.037.70	2.1320 5000	5.11 020 Diod	

Pos."	ArtNr. Part No.	Bezeichnung	Part
DDOO	200 205 207	4N4444 P/O-#	1N414 «04od»
DP09 DP10	309.325.927 309.325.927	1N4141 DiOd*	1N414*040d* 1N4148 Diode
		1N4146 0>0d«	
DP11		1N4001 D>od«	1N4001 Diode
DP12		1N4001 Diode	1N4001 Diode
OP13	309.325 951	1N4001 Diode	1N4001 Diode
DP20		BYT13-B00 Dtpd*	BYT 13-800 Diod*
DP21		BYT52G Diode	BYT52G Diode
DP21		PFR852 D.od«	PFR852 Diode
DP22	204.037.70	BYT52G D.ode	9YT52G Diode
DR04		ZPD0.2 0.5W 2-Dlode	ZPD8.2 0.5W Z-OiOd*
OROS	309325.927	1N4149 Diode	1N4148 Diode
OR06	309.325.927	1 N4146 OIOtf*	1 N 4 1 4 8 DiOd*
DTOt	464.358	ZPDB.2 0.5W Z-Olod*	ZPD8.20.5WZ-O.Od*
OT21	309.325.927	1N4148 Diode	1 N 4 1 4 8 Diode
OT22	309325.927	1N414B D«od«	1N4148 Diode
DT23		BAV21 Diode	BAV21 Diode
DT41	309.325-927	1N4148 Diode	1N4148 Diode
DT42	309.325.927	1N414Q Diode	1 N 4 1 4 8 Diode
OT43	464.879	BAV21 Diod*	BAV21 Diode
DT50	309.325 927	1N414aOode	1N4148 Diode
OTS1		BAV21 Diode	BAV21 Diode
OT52	309325.927	1 N 4 1 4 B D'oda	1 N 4 1 4 8 Diode
DT60	309.325.927	1 N 4 1 4 8 Diode	1N4148 DiOd*
OT6)	309.325.927	tN4I4a Diode	1N414B OiOd*
OT61	462.299	SAV21 Diode	BAV21 Diode
OT62	309.325,927	1N414B Diode	1N4148 Diode
DT63		BAV21 Diode	BAV21 Diode
OT70	309.325.927	1N4148 Diode	tN4148 Diode
DT71	462.299	BAV21 Diooe	BAV21 Diode
OT72	309.325.927	1 N 4 1 4 B Dioda	1N4148 Diode
DT65	464.358	ZP08.2 0.5W Z-DlodW	ZPDB.2 0.5W Z-Dktd*
DT66	309.325,927	1N4148 Diod*	1N4146 Diod*
DV01	309.325,927	1N4148 D>0d»	1N4148 Diode
OV02	309.325.927	1N4148 Dioda	1N4148 Diode
	309.325927		1N414B Diode
OV03		1 N 4 1 4 B Diode	BZX55B8V2 Z-Dlod*
OV04	309.325,127	BZX55B8V2Z-D>00*	BZX55B8V2 Z-DI00
0X01	309.325.927	1N4148 Ood*	1N4148 Diode
DX02	309.325.927	1N4148 Diode	1 N 4 1 4 8 D'oda
0X03	309.325.927	1N414B Diofle	1N414B Diode
0X04	309 325-927	1 N 4 1 4 8 D'OOfi	1N4146 Diod*
FP01	309,627.506	1.6AT Sicherung	1.6AT FUM
IA01	202.031.20	TDA7253 1C	TOA725S 1C
IA01	202.992.40	Morrfgectip	СНр
IC01	203.357.50	TDA4685 1C	TDA4MS 10
IF01	309 368,733	TDA1771 1C	TDA1771 1C
1F01	309.903.644	Montagecitp	Clip m*t*l
1101	201.eS2.80	STV224A 10	STV8224A 1C
IK01	101.324.10	TFMK1330T 1C IR-Vorvrefrkf	TFMK1330T 1C
IP01	309.368549	TEA2261 1C	TEA2261 1C
			0700044004 67
IR01	203.735,40	ST9291J6B1 1 C prog. o. S.	ST9291J6B1 1C
IB01	251.230,90	ST9291J6B1 1C prog. m. S.	ST9291J6B1 1C
IR01	309.669966	IC-Fflssung 42p0lig	(C socket 42pol*
IR02	309368734	TDA81391C	TDA81391C
IR02	309.903.644	Montageclip	Clip melal
IR03	243.022	IC-Faasung flpolig	1C socket 8pol*
IR03	490,008 0379		X24C041C
100		Monitgeclip	СНр
1T01	202.992.40		i i
	202.992.40 309.36f.606	TEA5101AIC	TEA5101A1C
1T01 IT01	309.36f.606		
1T01		TEA5101AIC STV21181C IC-Fassung 4;oo <tg< td=""><td>TEA5101A1C  STV21181C  1C socket42pol*</td></tg<>	TEA5101A1C  STV21181C  1C socket42pol*
1T01 IT01 IV01 IV01	309.36f.606 201.656.10 309.669 966	STV21181C IC-Fassung 4;oo <tg< td=""><td>STV21181C 1C socket42pol*</td></tg<>	STV21181C 1C socket42pol*
1T01 IT01 IV01 IV01	309.36f.606 201.656.10 309.669 966 203.061.50	STV21181C IC-Fassung 4;oo <tg CF70204 10</tg 	STV21181C 1C socket42pol* CF70204 1C
1T01 IT01 IV01 IV01 1X01 1X02	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60	STV21181C IC-Fassung 4;00 <tg CF70204 1C CP72306 IC</tg 	STV21181C 1C socket42pol* CF70204 1C CF72306 1C
1T01 IT01 IV01 IV01	309.36f.606 201.656.10 309.669 966 203.061.50	STV21181C IC-Fassung 4;oo <tg CF70204 10</tg 	STV21181C 1C socket42pol* CF70204 1C
1T01 IT01 IV01 IV01 1X01 1X02	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60	STV21181C IC-Fassung 4;00 <tg CF70204 1C CP72306 IC</tg 	STV21181C 1C socket42pol* CF70204 1C CF72306 1C
1T01 IT01 IV01 IV01 IX01 1X02 1X03	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470	STV21181C IC-Fassung 4;oo≺tg CF70204 10 CP72306 IC UA7805CSP/MC7605 10	STV21181C 1C socket42pol* CF70204 1C CF72306 1C UA7B05CSP 1C
1T01 IT01 IV01 IV01 1X01 1X02 1X03 LH01 LH02	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 339349512	STV21181C IC-Fassung 4;00 <tg CF70204 1C CP72306 IC UA7805CSP/MC7605 1C 47UH Drosiel 47UH Dfooel</tg 	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil
1T01 IT01 IV01 IV01 1X01 1X02 1X03 LH01	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512	STV21181C IC-Fassung 4;00 <tg 1c="" 47uh="" cf70204="" cp72306="" dfooel="" drosiel="" ic="" mc7605="" orotsei<="" ou56h="" td="" ua7805csp=""><td>STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil OU56H RF choke 0)1</td></tg>	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil OU56H RF choke 0)1
1T01 IT01 IV01 IV01 1X01 1X02 1X03 LH01 LH02	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 339349512	STV21181C IC-Fassung 4;00 <tg CF70204 1C CP72306 IC UA7805CSP/MC7605 1C 47UH Drosiel 47UH Dfooel</tg 	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil
1T01 IV01 IV01 IX01 1X02 1X03 LH01 LH02 LH01	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 309.250 968	STV21181C IC-Fassung 4;00 <tg 1c="" 47uh="" cf70204="" cp72306="" dfooel="" drosiel="" ic="" mc7605="" orotsei<="" ou56h="" td="" ua7805csp=""><td>STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil OU56H RFchoke00)1</td></tg>	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil OU56H RFchoke00)1
1T01 IV01 IV01 IV01 1X01 1X02 1X03 LH01 LH02 LU01 LU03	309.36f.606 201.656.10 309.669 966 203.061.50 203.061.50 309.368.470 339349512 339349512 309.250 968 266.716	STV21181C IC-Fassung 4;oo <tg CF70204 1C CP72306 IC UA7805CSP/MC7605 1C 47UH Drosiel 47UH Dfooel OU56H Orotsei 22UM Oroasel</tg 	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil  OU56H RF choke 00)1 22UH Choke
1T01 IV01 IV01 1X01 1X02 1X03 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH02 LH01 LH02 LH02 LH03 LH03 LH01 LH02 LH02 LH03 LH04 LH02 LH03 LH04 LH04 LH05 LH04 LH05	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 309.250 968 266.716 150.401.10 203.109.30	STV21181C IC-Fassung 4;00   IC-Fassung 4;00 IC   CF70204 1C CP72306 IC   UA7805CSP/MC7605 1C 47UH Drosiel   47UH Dfooel OU56H Orotsei   22UM Oroasel 3U3H 10% Dros«*1   38M9HZ Filler LA7x7	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coll 0U56H RF choke 00)1 22UH Choke 3U3H 10% Chok*COil 38M9HZ Filter
1T01 IV01 IV01 IX01 IX02 IX03 LH01 LH02 LI01 LI03 LI20 LI29 LI62	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 309.250 968 266.716 150.401.10 203.109.30 004.770.3676	STV21181C IC-Fassung 4;0o <tg 10%="" 12uh="" 1c="" 22um="" 38m9hz="" 3u3h="" 47uh="" cf70204="" cp72306="" dfdifj<="" dfooel="" dros="" drosiel="" fillef="" ic="" la7x7="" mc7605="" oroasel="" orotsei="" ou56h="" td="" ua7805csp="" «1)=""><td>STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil  OU56H RF choke00)1 22UH Choke 3U3H 10% Chok*COil 38M9HZ Filter 12UH 10% Choke coil</td></tg>	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil  OU56H RF choke00)1 22UH Choke 3U3H 10% Chok*COil 38M9HZ Filter 12UH 10% Choke coil
1T01 IV01 IV01 1X01 1X02 1X03 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH01 LH02 LH02 LH01 LH02 LH02 LH03 LH03 LH01 LH02 LH02 LH03 LH04 LH02 LH03 LH04 LH04 LH05 LH04 LH05	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 309.250 968 266.716 150.401.10 203.109.30	STV21181C IC-Fassung 4;00   IC-Fassung 4;00 IC   CF70204 1C CP72306 IC   UA7805CSP/MC7605 1C 47UH Drosiel   47UH Dfooel OU56H Orotsei   22UM Oroasel 3U3H 10% Dros«*1   38M9HZ Filler LA7x7	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil  OU56H RF choke 00)1 22UH Choke 3U3H 10% Chok*COil 38M9HZ Filter
1T01   IT01   IT01   IT01   IT01   IT01   IT01   IT01   IT01   IX01   IX02   IX02   IX03   IX04   IX05   IX	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 309.250 968 266.716 150.401.10 203.109.30 004.710.3676 130.206.00	STV21181C IC-Fassung 4;00   IC-Fassung 4;00 IC   CF70204 1C CP72306 IC   UA7805CSP/MC7605 1C 47UH Drosiel   47UH Dfooel U56H Orotsei   22UM Oroasel 303H 10% Dros*1   38M9HZ Fillef LA7x7 12UH 10% DfdifJ   5U6H 10% Orossel	STV21181C 1C socket42pol*  CF70204 1C  CF72306 1C  UA7B05CSP 1C  47UH RP choke coll  47UH RF choke coll  OU56H RF choke 00)1  22UH Choke  3U3H 10% Chok*COil  38M9HZ Filter  12UH 10% Choke coil  5U6H 10% Choke coil
1T01 IT01 IV01 IV01 IX01 IX02 IX03 LH01 LH02 LU01 LU03 LU20	309.36f.606 201.656.10 309.669 966 203.061.50 203.061 60 309.368.470 339349512 309.250 968 266.716 150.401.10 203.109.30 004.770.3676	STV21181C IC-Fassung 4;0o <tg 10%="" 12uh="" 1c="" 22um="" 38m9hz="" 3u3h="" 47uh="" cf70204="" cp72306="" dfdifj<="" dfooel="" dros="" drosiel="" fillef="" ic="" la7x7="" mc7605="" oroasel="" orotsei="" ou56h="" td="" ua7805csp="" «1)=""><td>STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil  OU56H RF choke 00)1 22UH Choke 3U3H 10% Chok*COil 38M9HZ Filter 12UH 10% Choke coil</td></tg>	STV21181C 1C socket42pol*  CF70204 1C CF72306 1C UA7B05CSP 1C  47UH RP choke coll 47UH RF choke coil  OU56H RF choke 00)1 22UH Choke 3U3H 10% Chok*COil 38M9HZ Filter 12UH 10% Choke coil

# Ersatzteile • Spare parts list • Liste de pieces de rechange • Lista parti di ricambio Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!

N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!

Important: Lors d'une commande de pieces de rechange, priere d'indiquer et tout cas le numero de la piece!

Importante: Ordinare sempre con il numero correspondent! di codice!

Importante: Pedir siempre los recambios con el numero correspondiente codigo!

Pos.	ArtNr. Part No.	Bezeichnung	Part	Pos
		MODULE/AUSTAUSCHTEILE:	EXCHANGE PARTS:	DP09 DP10
	000 400 00	MTM 4045 TUNED	META 440.45 THIN IED	OP10
MTM4045	202.483.90	MTM4045 TUNER	MTM4045 TUNER	OP12
				DPI3
		CHASS1S-TE1LE	CHASSIS PARTS	OP20
BA01		Stiftfrr ipoiig. UP	O air anatast Elevisias	DP21 DP21
BAUI	21>.OM	Stritti ipolig. or	2 pin contact Flouting	OP22
BE01	309«51 001	Scartbkichse21polfg	Scan *ocke(	DD04
BT01	201.746.20	Biklronrfassung	Cathode ray tub* sockt	DR04 DB05
BTOI	353.902.1000	Bildrohrlaaaung	Ca-noae riy tube >ock«l	OR06
BT02	905.903.50	Simi*ist* IQpollfI RD UF	Conrct »trip 10-pol*	
				DT01 OT21
BV01 BV02	309.650.Oe4 90S.903.50	StilUeisle IOpolig UF Sfitllerte IOpolig RD UF	Contact itrip 10-por Confci •trip 10-pol*	OT22
BV02	309.950.092	Stiltl*i*f. 4polig Uegend	Contact atrip, 4-pol«	DT23
5700	000.000.002	Cana i ii ipong Cogona	Contact duip, 4 poi	DT41
8X01	309.650.087	Stifllelele. IOpohg. NaturU	Contact «trip, 10-pot<	DT42
CH12	490.008.0607	10NF 250V 20% K*ramik-Kond*naator	10NF 250V 20% C cap	OT43 DT50
02	100.000.0001	Total 2007 2070 it familie riona fladio	1014 250 20% C cap	OT51
CL04	101.657.70	6N3F 1K6V 3,5% Filmkondenaator	6N3F 1K6V 3,5% Film c»p	DT52
CL04	258.909	7N6F 1K6V 3.5% FilmkondenaatOf	7N6F 1K6V 3.5% Film dp	DT60
CL04 CL05	490.007.8232	200NE 250V 100V MVD Vc- **	7NOF 1K5V 3.5% Film cap	DT6<
CL05 CL05	309.433.786 309433.775	390NF 250V 10% MKP-Kond*n«ator 470NF 250V 5% MKP-KondenaaiOf	39CNF250V 10%Fitmc«p 47CNP 250V 5% Capacitor	OT62
CLIO	303433.113	2007 070 WINT -NONGERIAAIOI	5141 250 ¥ 576 Capacitor	DT63
CL12	490008.0607	10NF 250V 20% Keramik-Kondensator	10NF 250V 20% Ccap	DT70
CH5	266.243	330PF 1KV 10% Keramik-Kond*nutor	33CPF 1KV 10% C cap	OT71
ciia	243 879	330PF 400V 20% Karamik-Kondensalor	330PF 400V 20% C cap	OT72 DT85
ona	242.272	6BOPF 2KV 10% K*ramik-Kond*nsator	66CPF 2KV 10% C cap	D185
CPOI	252.120	OU1F 276V 20% MP-Kond*n—tor	OU'F 275V 20% MPoty cap	
CP04	203.887.60	1NF 1KV 10% K*ramik-Kondenaator	1NP 1KV 10% C cap	DV01 DV02
CP06	309.440.680		1N5P 1KV Ccap	OV02
CP07	490,007.2242	100UF 400V Elho	100UF 400V E cap	DV04
CP08	203.867.80	1NF 1KV 10% Kef «mik-Konden» «tOf	1NF 1KV 10% C cap	
CPU	243.679	330PF 400V 20% Ker*(nik-Konden*alor	330PF 400V 20% Ccap	0X01
CP16	309.440.660	1NF 1KV 50%Kefmtk-Kondenaator	1NF 1KV 50% C cap	0X02
CP21 CP21	101.09980	4N7F 400V 20% Kefmik-Kondenattor	4N7F 400V 20% Ccap	0X03 0X04
CP29	490.008.0601	270PF 2KV 10% Kfamik-Kondansator	Profction cap 27CPP2KV10%Ccap	0.704
CP35	266.243	330PF 1KV 10% K*ramik-Kond*naator	330PP 1KV 10% C cap	FP01
CP36	309.419.428	150UP 200V Eiko	1SOUF 200V E cap	
CP40	243.679	330PF 400V 20% K*famik-Kond«n—tor	330PP 400V 20% C cap	IA01
CT03	140.360.20	2N2F 2KV 50% Kftramik-KondTrator	2N2F 2KV 50% Ccap	IA01
CT82	248.746	2U2F 250V Elko	2U2F 250V E cap	IC01
CT84	23(221	10NF 250VAC 400V Keramik-Kondensator	10NF C cap	
CT85	309.442.978	1NF 2KV 20% Keramik-Kondenaator	1NF2KV20»CC«p	IF01
DA05	31M.32i.UI	BZX55B2V7 Z.CHod*	8ZX5SB2V7Z-Ooda	IF01
0004	464371	7005 4 7 0 4	7005 4 7 01 114	1101
OC01	404371	ZPD5.1 Z-Dtod*	ZPD5.1 Z-DlodW	IK01
DFOf	309.325.951	1N4001 Diod*	1N4001 Diod*	
DF02	309-325.927	1N4148 DIOd*	1N4148 Diod*	IP01
DF21	309.325,927	1N4148 Dod*	1N4149 Oiod*	1001
DF22	309.325.927	1N4148 Oiodtt	1N4148 DIOd*	IR01 IR0t
OH01	353.111.2001	ZTK33C tC	ZTK33C 1C	IR01
				IR02
DK01	202.9(6.20	LTL-4263 Diode LED rot	LTL-4263 Diod* LEO r*d	IR02
DK01	239.018	Halter. LED	LEO rroldw	IR03
DK03	202.966.20	LTL-4263 Diod* LED rot Halfr LEO	LTL-4263 Olod* LED r»d LEO holdw	IR03
MK03	203.820.60	am EEO	LLO HOIGH	IT01
DL01	309.325.927	1N41480iOd*	t N4148 Oiod*	IT01
DL02	204.037.70	BYT52Q Diod*	BYTS2G Oiod*	
DL04	204.037,70	BYT52G Di0d»	BYTS2Q Diod*	IV01 IV01
DLOt 0106	204.037.70 204.037.70	8YT52G OlOd* BYT52G Diod*	BYTS2G DiOd* B' <t52g diod*<="" td=""><td>1001</td></t52g>	1001
0106 DL07	309.325.951	1N4001 DiOd*	1N4001 Diod*	1X01
DL07 DL06	309.325.951	1N4001 DIOd*	1N4001 DiOd*	1X02
DL12	309,325.927	1 N 4 1 4 8 Oioda	1 N 4 1 4 8 Diodtt	1X03
DL13	243.375	BZX55B13VZ.Diod*	BZXSSB13VZ-Diod*	,
01-20	309.325.927	1N414B Diode	1N414B Diod*	LM01 LH02
OL21 DL23	309.325,927 309.325.927	1N4148 Diod* 1N4148 DtOd*	1N4146 Oiod* 1 N41480100*	Ln02
DLEU	303.323.827	40 5.00		LI01
DP01	102.661.30	M100M DiOd*	M100M Dtod*	LI03
OP02	102.661.30	M100M Oiod*	M100M Diod*	L120
DP03	102,661-30	M100M Diodt	M100M Dk)d*	LI29 L162
DP04	102.661.30	M100M Diodt	M100M Diode BYTI1-600 Dtod*	L162
OPO» DPM	490.001.1567 204.037.70	BYT11-600 Olod4 BYT52G Di0d«	BrT52G Oiod*	1100
OP07	204.037.70	6YT52G Diod*	BYT52G Olod*	LL01
OPW	204.037.70	BYT52Q Oted*	BYTS2Q Diod*	11.03

Pos~	ArtNr. Part No.	Bezeichnung	Part
DP09	30932S.927	1N4148 DiOd*	1N4148D100*
DP10		1N4148 D'od*	1N4148 Diod*
OP11	309.325 951	1N4001 D*0d»	1N4001 Diode
OP12	309.325.951	1N4001 Diode	1N4001 Diode
DPI3	309.325951	1N4001 DioOe	1N4001 Diode
OP20		BYT13-800 Diod*	BYT13-800 Diod*
DP21	204.037.70	BYT52G Diod*	BYT52G Diode
DP21	490.008.0461	PFR852 Dioda	PFR852 Diode
OP22	204.037.70	BYT52G DIOO*	BYT52G Diode
DR04	464.358	ZPD8.2 0.5W Z-Diod*	ZPD8.2 0.5W Z-DiOd*
DB05 OR06	309.325.927 309.325.927	1N4148 Oiod* 1N4148 OIOd*	1N4148 Diod* 1N4148 Diode
DT01	464.358	ZPD8.2 0,5W Z-OiOd*	ZPD8.2 0.5WZ-Oied*
OT21	309325.927	1N4148 D>0d*	1N4148 Diod*
OT22		1N4148 D<0d*	1N4148 Diode
DT23		BAV21 D.od*	BAV21 Diode
DT41	309.325.927	1N4148 Diode	1N4148 Diode
DT42	309.325.927	1N4148 Diod*	1N4148 Diode
OT43	464.879	BAV21 DiOd*	BAV21 Diode
DT50	309.325 927	1N4148 DiOd*	1N4148 Diode
OT51			BAV21 Diode
DT52	309.325.927	BAV21 DiOd* 1N4146 D <oda< td=""><td>1 N 4 1 4 8 Diode</td></oda<>	1 N 4 1 4 8 Diode
DT60	309.325.927	1 N 4 1 4 8 OiOde	1 N 4 1 4 8 Diode
DT6< OT61	309.325.927	1 N 4 1 4 8 OiOde	1N4148 Diode
	462.299 309.325.927	8AV21 Diode	BAV21 Diode 1N4148 Diode
OT62		1N4146 Diode	
DT63	464.679	BAV21 Diod*	BAV21 Diode
DT70	309.325.927	1N4I480ode	1N4148 Diode
OT71		BAV21 Diode	BAV21 Diode
OT72	309.325.927	1 N 4 1 4 8 Diode	1N4148 Diode
DT85 DT86	464.358 309.325.927	ZPD8.2 0.5W Z-Diod* 1N4148 DiOd*	ZP09.20.5WZ-DtOd* 1N4148 Diode
DV01	309.325.927	1N4148 Diode	1 N 41 48 Diode
DV01	309.325.927	1N414B Diode	1N4148 Diode
OV03	309.325.927	1N4148 Diode	1N4148 DiOde
DV04		BZX5568V; Z.D.od*	BZX55B8V2 2-Dode
0X01	309.325-927	1N4148D.ode	1N4148 Diode
0X02	309.325.927	1N4148 Diode	1N4148 Diode
0X03	309.325 927	1N4148 DioOe	1N4148 Diode
0X04	309.325-927	1 N 4 1 4 8 Diode	1N4146 Diode
FP01	309627.508	1.6AT SchTung	1.6ATFuee
IA01 IA01	202.031.20 202.992.40	TDA72531C Monlageclip	TDA72S31C CHp
IC01	203.357.50	TDA46651C	TOA46651C
1504			TO 14771 40
IF01 IF01	309 368.733 309.903.844	TDA1771 1C Montag*clip	TOA177t 1C Clip mfl
1101	201.ef2.10	STVB224A 1C	STVB224A 1C
IK01	101.324.10	TFMK1330T 1C IH-VorvratBrker	TFMK1330T 1C
IP01	309.368.549	TEA22611C	TEA22611C
IR01	203.735.40	ST9291J6B1 1C prog.0. S.	ST9291J6B1 1C
IROt	251.230.90	ST9291J6B1 1C prog. m. S.	ST9291J6B1 1C
IR01	309.689 966	IC-Fassung 42oolig	(C socket 42pol*
IR02	309.368 734	TDA81391C	TDA81391C
IR02	309.903.844	Montageclip	Clip metal
IR03 IR03	243.022 490.0080379	IC-Fassung Bpolig X24C041C	1C socket 8pol* X24C041C
IT01 IT01	202.992.40 309368606	Monlageclip TEA5101AIC	Clip TEA5101A  C
IV01 IV01	201 658 10 309.689 966	STV21181C IC-Fassung 42ooltg	STV21181C 10 socket42por
1X01	203.061.50	CP70204 1C	CF70204 1C
1X02 1X03	203.061.60 309.368.470	CP72306 1C UA7805CSP/MC7M5 1C	CF72306 1C UA760SCSP 1C
LM01	339.349.512	47UH Dro*—I	47UH RF chok* COII
LH02	339 349 512	47UH DfOtael	47UH RF Chok* COil
1.104	200 250 000	0/15011 D	OLIEGH DE abolit en l
LI01	309.250 988	0(J56H Drossef	OU56H RF chok* 60U
LI03	266716	22UH Diossel	22UM Choke
L120	150,401-10	3U3H 10% Dror*I	3U3H 10% Chok* coil
LI29	203.109.30	36U9HZ Filfr LA7I7	38M9HZ Fi«*r
L162 L163	004.710.3876 130.206.00		12UH 10%Cfiok* coil 5U6H 10% Chok* coil
11.03	309.249.377	5BUH SDul*. H-Lirrarift	58UH H-Lineafiiy colt
L163 LL01 11.03	130.206.00 243.888 309.249.377	SU6H 10% Drosael  Treibertranxformator 5BUH SDul*. H-Lirrarift	5U6H 10% Chok* coil  M-Driver transformer 58UH H-Lineafliy colt

# Ersatzteile • Spare parts list • Liste de pieces de rechange • Lista parti di ricambio Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!

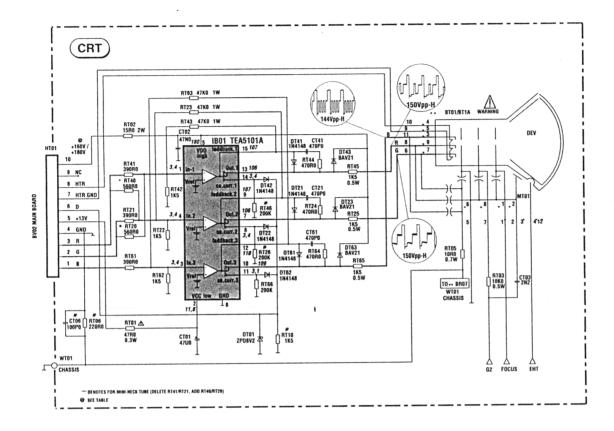
N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number! Lors d'une commande de pieces de rechange, priere d'indiquer et tout cas le numero de la piece!

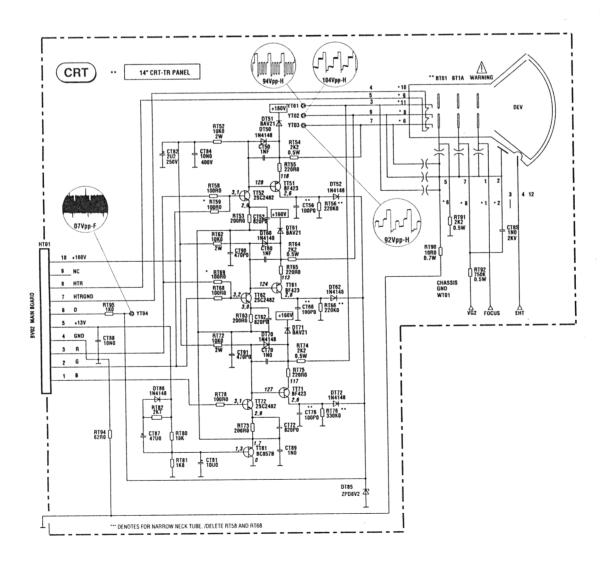
Importante: Ordinare sempre con il numero correspondenti di codice!

Importante: Pedir siempre los recambios con el numero correspondiente codigo!

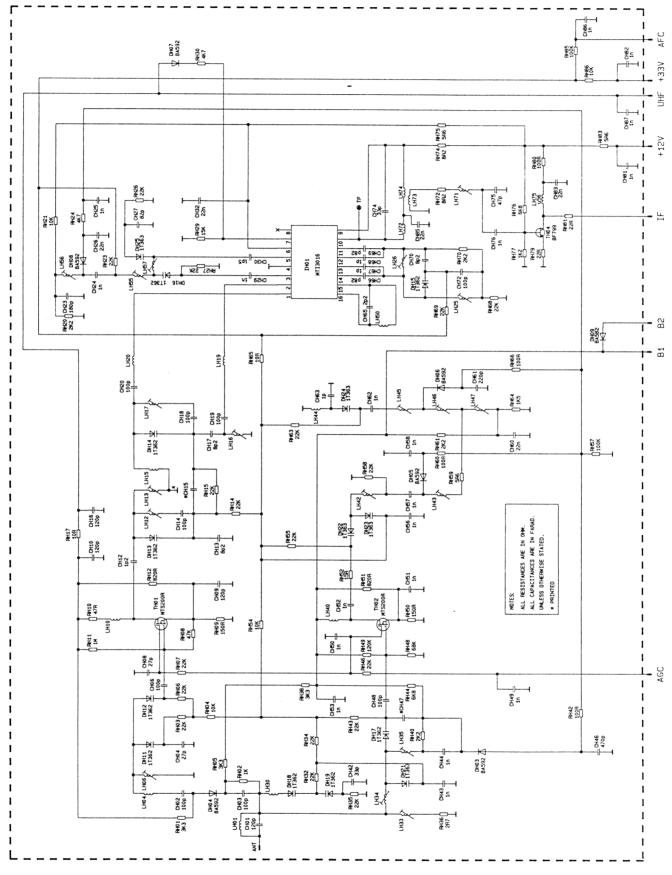
Pos.	ArtNr. Part No.	Bezeichnung	Part		Pos.	ArtNr. Part No.	Bezeichnung	Part
							477.0011.001	
LL03	490.007.8459	90UH Spule H-Lirwahtt	SOUM H-Linearity coil		RT01	253.081 S	47R 0.3W StCherh cits wider stand	47R 0.3W Fusible resistor
LL04	309.250984	50UH15%Oroifrl	50UH 15% Choke		RT02	130.013.50	15R 2W 5% Meftloxydwiderstand	15R 2W 5% Motal oxide resistor
LL05	20202880 !	Diodenaplil-Tralo TX91 14' FCV-1410E18	Diode split transtoffTTf		RT03	404.349.80	10K0.5W5%W «afsiano	10K 0.5W 5% Resistor agglom.
LL05 LLOS	203.832 80 * 251.233.40 5	OtOdeflsplil-Tfafo TX91 20* D>od nsplH.TrafoTX91 20' FCV-2010E07	Diodfli split traniforiTiM Diod* split Irinsformw		RT23 RT25	101.337.80	1K5R 0.5W 5% Widersfnd	1 K5R 0.5W 5% Resisior afffllom.
			-		RT43	101.337.60		
LPO)	339 349.566 ! 203 979.40	2X4QOUH NBtzeingangUro——I 30MH Siebarossel	2X400UH Poww chok« 30MH Piller choke		RT45 RT52	101.218.80	1K5R 0.5W 5% Widersund	1K5R 0.5W 5% Resistor anglom.
LP02	490.0060542	33MOH Siftbdrossel	Pilfr choke		RT62	490007.8228	10KR2W 10% Meiailoxyaw.dersfnd	10KR 2W 10% Metal oxide resistor
LP02		Trafo Schaltnetzfi)	Swiicfifld mode power (rinxformw		RT63	490 007.8228 101-337,80	10KR2W 10% MeflloxydwidefSiand 47KR 1W 5% M«flkixy0w>derstand	10KR 2W 10% Melal oxide resistor
LP03 LP03	203774.10 S 203.t25.90 E	Trafo Schallnetzteil ETS42A2-116ND	Switcrfd 'nod* power tfinitomw		RT65	101-337,80	1K5R0.5W5% Widerstand	47KR iw 5% Metal oxide resistor 1K5R 0.5W 5% Resistor agglom.
LP03	203.123.90 L	2U2H 10% Drossel	2U2H tO%Chok«coil		RT72	490.007.8228	10KR2W10% Meuiloxydwidersiand	10KR 2W 10% Metal oxide resisior
LPO*	203.264 50	4UH 10% Orossel	4UH 10% Chokacoil		10172	430.007.0220	TOTAL 200 TO 70 Wicklioxy awards and	TOTAL 244 TO /6 WICIAN OXIGO TOSISION
LPW	203.264.50	4UH 10% Drossol	4UH 10% Choke coil		RV02	258863 S		
LP01	150397.50	15UH 10% Orossel	1SUH 10% Choke coil		RV41	150.099.70 S	3R9 0.3W 5% SicherheilswtdTslend	3R9 0.3W 5% Fusible resistor
LR01	266406	10UM Droeiwt	IOUHChokccoU		RX01	309.580 955 :	22R 0.3W 5% Storwh^ttwidJntend	22R Q.3W B« Fuaible resitor
MTO)	402.0t2.00	Clneh BucttM	Clneh •ockt		SK01	105.106.00	TaKtschaner	Tact twitch
P101	203.S13.20	10KR 30% Tnmmwider»tand (legend	10KR 30% Trimmer r—iator		SK01 SK02	404.474.1A 105,106,00	Taxtschalter Taktscmier	Tact switch Tact switch
			470R Trimmer reirtor		SK03	105.106.00	Taktscha'ier	Tact switch Tad switch
PP01	309 S09.204	470R Tnmmwiderstand. liegend	minimo rentor		SK03	404.474.1A	Taktscmier	Tad twitch
OC01	100.877.10	4M433616HZQuirz	4M433G19HZ Crystal		SK04	105.106.00	Taktecheirr	Tact twitch
QC02	100.877.10	3M579545HZQuarz	3M579545HZ Crysfl		SK04	404.474.1A	Takischalter	Taci switch
2002	.00.011.20		3.33.2.2.3.3.		SKOS	101.759.10 S	Neizscnalter	Mama switch
0101	404.03749	OFWG1962M Obertlachenwirnfilter	Surfac* •eouilic w∨ tilfr		SKOS	201.260.10 S	Netzschaltef. 4A 250V	Main« switch
0132	278.341	SFT5.SMA KeramikftHer	SFTS.6MA Cenmic lilfr					
0114	203.381.70	70KHZ Kenmiklilter Trap	70KHZ Certmic filter trip		TA05	339.555.241	BC9488 Transistor SMD	BC848B Transistor
		DMOLIZ O	9MOUZ Codic!		TAOC	339555.241	BC848B Transistor SMD	BC848B Tranaiator
QR01	3C9.335.731	BMOHZ Quarz	8MOHZ Crytial		TP21	339.555241	BCS4BB Tranartor SMD	BCa4BB Transielor
QV01	309.180.840	CSB503B Keramikfllfr	CS95039 CTtmic mif		TF31 TF31	102.762.40 339.5S5.24t	8C&4BA Transistor	BCB4BA Transistor
QXOt	261.323	13M875HZ Quarz	13M875HZCfyst»I					BC648B Transistor
1		4D O OW FOU D	4 D 0 0W 50/ 5 31		TH01	249.0(3	BC647B Transioior SMO	BC847B Transistor
RA25	339 537.717	1R 0.3W 5% Sicnerneltswiderstand	1 R 0,3W 5% Fusible resistor		TH02	242.012	BC658/C Trensistor SMD	BC85a/C Transistor
RA21	246.aoe s	470R 0.3W 5% Scherheitswidersiand	470R 0.3W 5% FusiDle resistor		TH03	242.012	BC858/C Transistor SMO	BC858/CTransistor
DE04	1SO.OM.70 !	2R2 0.3W S% SIcherheifwldarafnd	2R2 0.3W 5% Fu»ibli resistor		TH04	242.012	BCa56/C Transistor SMD	BC858/C Transistor
RF01 RF04	150.0M.70 ! 150.144.10	2R 0.4W 2% MelaMfilmwiderstand	22R 0.4W 2% Mefl litm rauxtor		T101	242857	MMBTHIOLTI Transftor SMO	MMBTHIOLTI TransHtOf
57	.00.174.10				T131	249.250	BC858B Transistor SMO	BC858B Translator
RHie	339.537.717 ;	1 R 0.3W 5% Sichemeitswider stand	1 R 0.3W 5% Fusible resistor		T132	339.555.241	BC848B Transistor SMD	BC8488 Transistor
RM17	253.747 S	5R6 0.3W 5% Sicherheitawiderstand	5R6 0,3W 5% Fusible resistor					
DI C.	400	200D 41W 50/ M	200D 41W E0/ Mar-1 1		TK02	33t.SS5.241	BCB48B Truulfor SMD	RC8488 Tnin—ur
BL01	130.838.20	390R 1W 5% Metalloxydwidersland	390R 1W 5% Mfttal oxide resistor		T1.04	200 552 727	BC227 40 Transitor	D0007 40 7 6
RL07	309 580.952	1KR 0.5W 10% Sicherheilswidersiand	1 KR 0.5W 10% Fusible resistor 1 BR 2W 5% Oxide metal resistor		TL01 TL02	339.556.787	BC337-40 Tranarlor	BC337-40 TranaCtor
RL08 RLM	101513.20 309 536 942	ieR 2W 5% Metalloxidwtderstand 33R tW 5% Metalloxydwiderstand	33R 1W 5% Men oxida resistor		TL02 TL02	261.825 309.005.026	Montageclip 1 S2055AF Tren»I»tor	ClipI S2055AF Transistor
RLO«	490 006 7871	33R 2W 5% Metalloxydwiderstand	33R 2W 5% Metal oxide reaisIOf		TL13	339 556.767	BC337-40 Tranaistor	BC337-40 Transistor
RLM	203521.70	8R2 5W 10% Drahtwid erst and	8R25W10%Wiferes.slof		.210	300.707		
RL11	200021.70	CAL CAN TO A DIGITAL CONTROL	15R 0.5W 5% Fusible resistor		TP01	102.067.60	BUL310XI Trensifttof	BUL310XI Transistor
RL12	103,131,10 S	OR560 0.5W 5% Sicherheitswiderstand	OR560 0.5W 5% Fusible resistor		TP01	281.825	Montageclip 1	Clipi t
RL13	103.054.50 ;	OR220 0.5W 5% Sicherheitswiderstand	OR220 0.5W 5% Fusible resistor					
RL13	103.131.10 S	OR560 0.5W 5% Sicherheitswiderstand	OR560 0.5W 5% Fusibf restsior		TR01	339.555.241	BC848B Transistor SMD	BC848B Transistor
RL13	243743 S	1R5 0.5W 5% Sicherheilswiderstand	1R5 0,SW 5% Fusible resistor		TR08	339.555.241	BC648B Transistor SMD	BC846B Transistor
RL22 RL22	103.321.70	75KR 1W 5% Metalloxydwiderstand	75KR 1W 5% Metal oxide resistor 82KR 1W 5% Metal oxide resistor		TR03	339.555.241	BC848B Transistor SMO	BC848B Tranaiator
NLZZ			SELECT TVV S/0 IVICIAL UNION TESISION		TT51	309.001.310	BF423 Transisior	BF423 Translator
RP01	203.696.40	5R1 5W 10% Drshlwid er stand	5R1 5W 10% Wire resistor		TT52	160 037.60	2SC2482N Transistor	2SC2482N Transistor
RP02	110.651.00 S	25R 220V PTC-Widerstand	25R 220V PTC resistor		TT61	309001.310	BF423 Transistor	
RP03	203 102.40	1K 7W 5% Drahtwiderstand	1 K 7 W 5% Wire resistor		TT62	160.037.60	2SC2482N Transistor	2SC2482N Transistor
RP06	2C3.695.90	18KR5W5% Mtlatlorydwidarstand	18KR 5W 5% Metal oxida resistor		TT7]	309.001.310	BF423 Transistor	8P423 Transistor
RP07	41344301	4K75 0.25W 1% Metallfilmwiderstand	4K75 0.25W 1% Melal film resistor		TT72	160,037.60	2SC2482N Transistor	2SC2482N Transistor
RP10	204 704 60	33R 3W 5% MelalloxydwidTstand	33R 3W 5% Mefl oxide resistor		TT81	352.875.5000	BC857B Trannitor SMO	BC857B Transistor
RP20	130.498.80	OR220 3W 5% Metallfilmwiderstand	OR220 3W 5% Meial film resistor OR270 3W 5% Metal film r«s>s1or		TV04	240.250	BC858B Trannxtof SMD	DC050D Trongula-
RP20 RP21	130.85530 309 530 716	OR270 3W 5% Metallfilmwiderstand TOM 0.7W 5% Schichtwider aland	10M 0.7W 5% Metal film r*s>s1or		TV01 TV02	249.250 249250	BC858B Trannxtof SMD BC858B Tran—tor SMO	BC858B Tran«»lor BC8S8B Tr.nsrlor
RP21 RP31	103.0S4.50 S	OR220 0.5W 5% Sicherheitswiderstand	OR220 0.5W 5% Fusible resistor		1 702	270200	DOGGOD HAIT—LUI SIVIO	DOGGOD IT. ISHOI
RP31	243903 S	OR22 0.5W 5% Sicherheitswiderstand	OR22 0.5W 5% Fusible resistor		TX01	309001 228	BC558B Transitor	BC5SBB Transistor
HP32 RP32	103054,50 R 243 903 S	OR22 0.5W 5% Sk:hflrhe«tsw»dersiand	OR22 0.5W 5% Fusible resistor			103.381.90	Laitung mrt Sleeker lOpolig 420mm	Cable with socket 10-pol* 420mm
RR01	100.37t.00 3	BR2 0.5W 5% Sich-hellswidTStand	8R2O.SW5% Fusible resistor				Chassis BV82 an CRT HT81	
KKOT	100.37.00 3	Siz 0.5W 5% Giorriciswa Totalia	of CE O. OVY 5/61 dalide resistor					
				] .				

# VIDEO AMPLIFIER - AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKER AMPLIFICATORE VIDEO - AMPLIFICADOR VIDEO





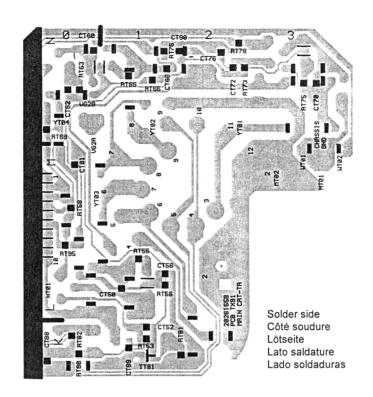
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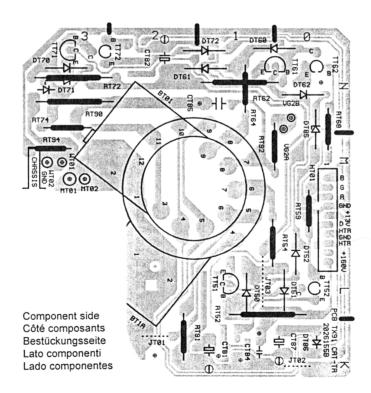


(For information only)

# VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

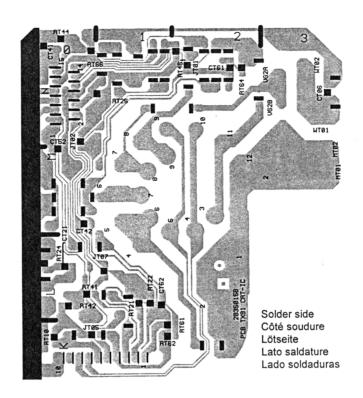
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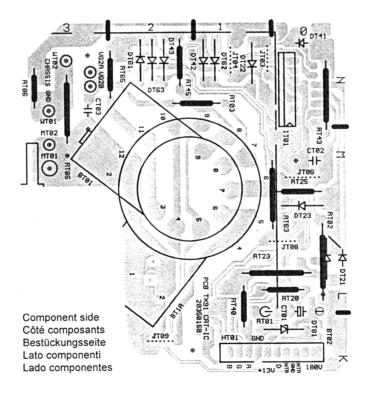




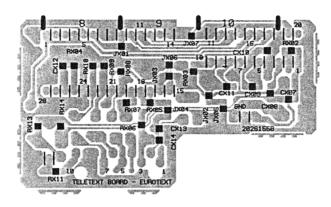
# VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

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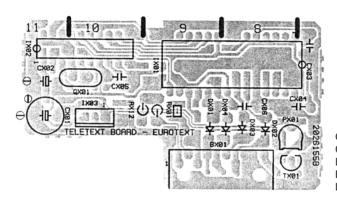




# TELETEXT MODULE - MODULE TELETEXTE - VIDEOTEXT MODUL MODULO TELEVIDEO - MODULO TELETEXTO



Solder side Côté soudure Lötseite Lato saldature Lado soldaduras



Component side Côté composants Bestückungsseite Lato componenti Lado componentes



BC 847 B BC 848 A /B /C BC 857 B BC 858 B /C DTC 144 EK MMBTH10L



BF 423



2 SC 2482



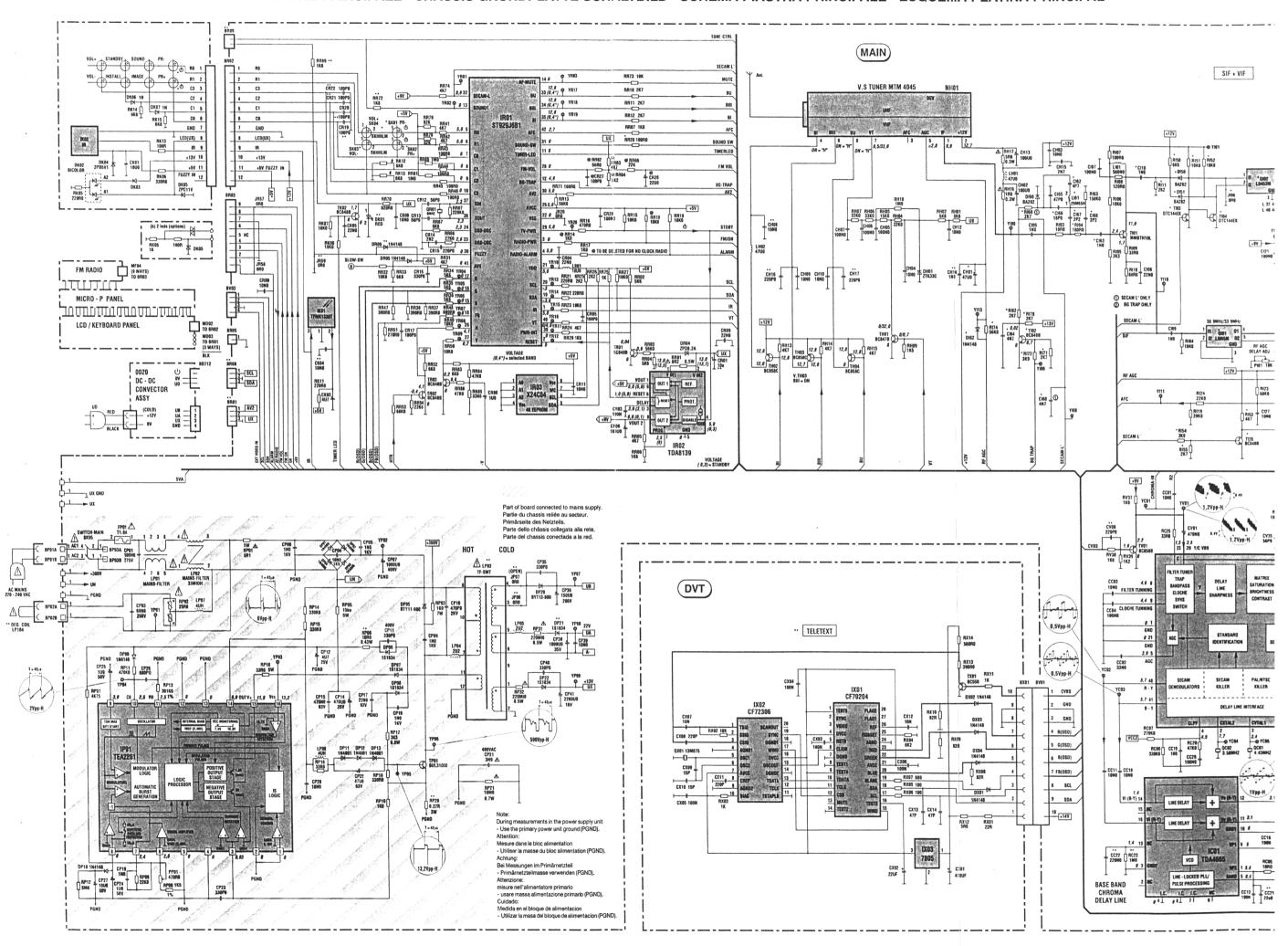
BC 337 BC 558 B

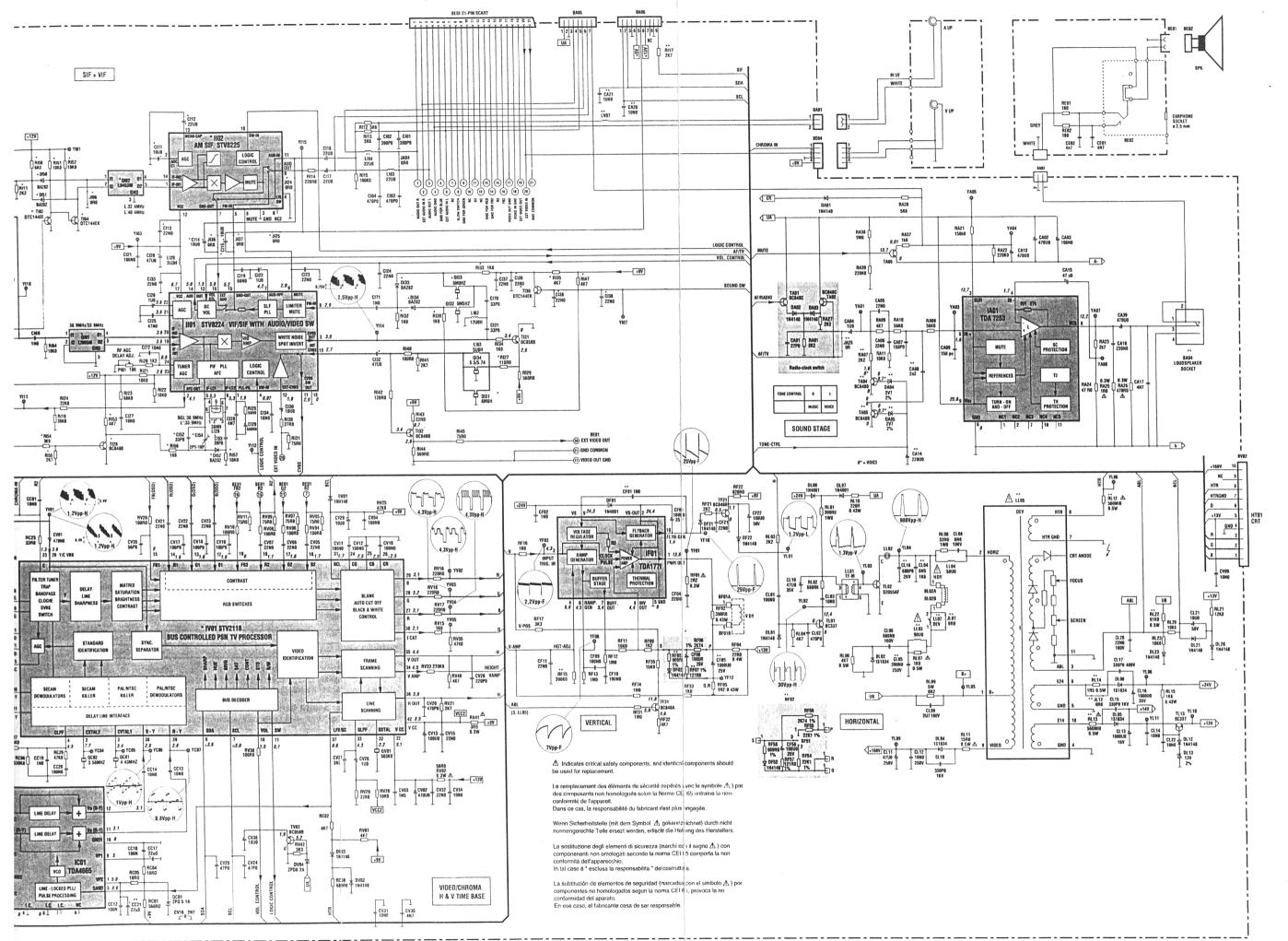


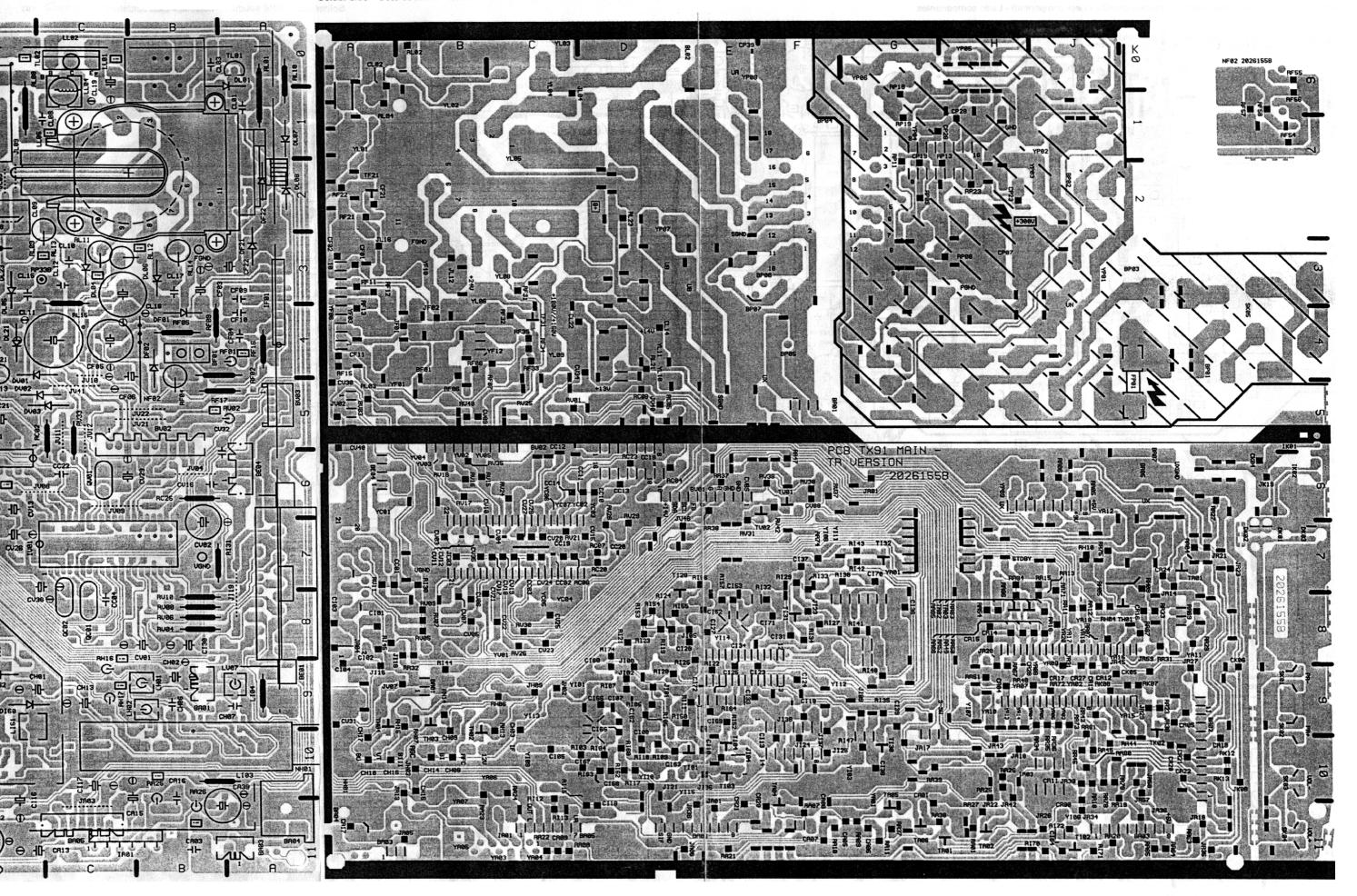
BUL 310 XI



S 2055 AF







# MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

Component side - Côté composants - Bestückungsseite - Lato componenti - Lado componentes

